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The
CHEMIST AND DRUGGIST
RETAILER — WHOLESALER — MANUFACTURER

SEPTEMBER 17, 1949

B. B. & Co LTD

CALLING ALL CHEMISTS

ALL CHEMISTS SHOULD CALL
AT OUR STAND No. 72 AT

THE CHEMISTS EXHIBITION

CENTRAL HALL
WESTMINSTER
LONDON
S.W.1.

Sept. 19—23, 1949

BURGOYNE BURBIDGES
Established 1741. & COMPANY LIMITED, LONDON, E.6

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In the choice of an Analgesic

'CODALGIN'

TRADE MARK

has a Perfectly Balanced Formula and the BAYER quality behind it

WHY is 'Codalgin' better? Its carefully balanced formula makes pain-relief quick, safe and prolonged. There are no by-effects. The packing is hygienic and attractive, and the four-tablet block is useful for pocket and handbag.

These trade terms are worth noting:

Discount of 33⅓%
Bonus of 14 to the dozen on orders of 6 dozen cartons of 20 in exchange for display.

Purchasing under these terms shows a profit of 9d. on each packet sold.

'Codalgin' is retailed at 20 @ 1/9., bottles of 100 @ 7/6d. P. Tax extra.

BAYER PRODUCTS LIMITED
AFRICA HOUSE, KINGSWAY, LONDON, W.C.2 (HOL. 8730)

CLEANING and STERILISING USED MEDICINE BOTTLES

With the reduction in allowance, it is worth cleaning, *sterilising* and re-using returned medicine bottles.

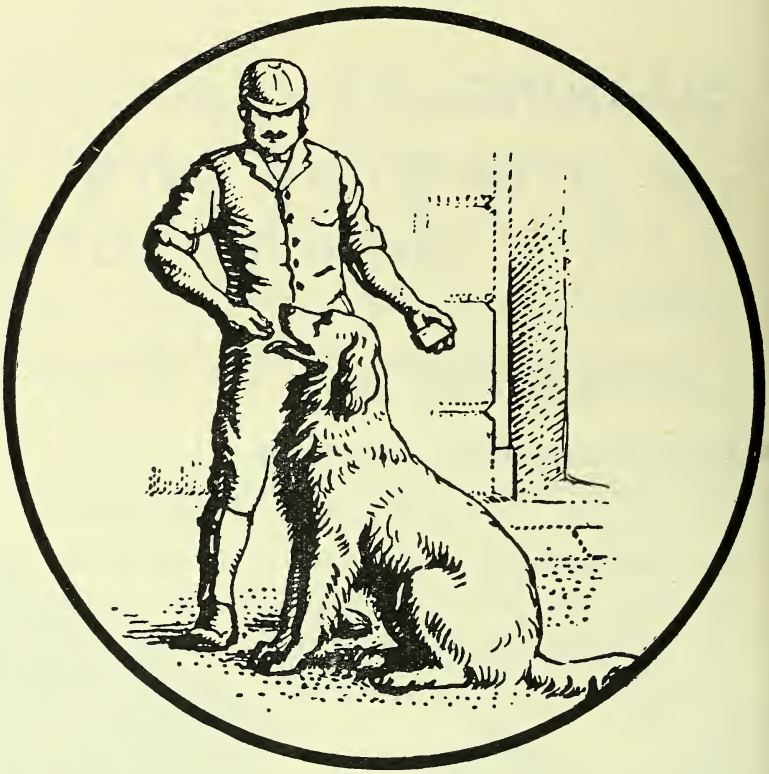
THE FOLLOWING METHOD IS EASY AND ECONOMICAL

● Clean bottles thoroughly with a hot detergent solution. Synthetic detergents are to be preferred to soaps as they do not yield insoluble precipitates with commonly used medicines. Use a brush and/or specific solvents for intractable deposits.

● Soak for at least two minutes—and preferably five to allow a safety margin—in a 1-in-50 solution of Milton. (Sterilisation is normally complete in less than one minute). No air bubbles should be present in the bottles, so that the solution comes into contact with the whole surface of the bottle.

● Drain bottles and rinse with hot sterile water. Drain and dry aseptically.

Milton Antiseptic Ltd.,
10/12 Brewery Road, London, N.7



For nearly sixty years " Bob Martin " has been a respected nar in the world of dog and cat owners. The preparations which be this name are manufactured from ingredients of the highe quality, by skilled workers, supervised at every stage by qualifi chemists. The Bob Martin factory at Southport contains one of t best equipped veterinary laboratories in the country, whe stringent control and constant research help to make t Bob Martin products the finest of their kind.

BOB MARTIN LTD. SOUTHPORT, LANC

CROOKES HALIBUT OIL

Bonus Terms

including the "Stronger" Capsules

STANDARD BONUS PARCELS	
All 13 to the dozen — showing you a profit of nearly 40%	
E	36 × 25 Capsules + 3 bonus
G	12 × 15 c.c. vials + 1 bonus
H	36 × 5 c.c. vials + 3 bonus
J	12 × 30 c.c. vials + 1 bonus
L	12 × 100 Capsules + 1 bonus
P	12 × 15 c.c. vials Infants Emulsion + 1 bonus

Bonus Terms for Crookes Halibut Oil and the 'STRONGER' Crookes Halibut Oil Capsules were mailed to all retail chemists on the 1st September. A selection of 8 attractive window and counter displays are available. Full details upon request.

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON · N.W.10

THE CHOICE OF DISCRIMINATING WOMI
IN THIRTY DIFFERENT COUNTRIES

A NEW CONTRACEPTIVE

★ The result of prolonged biological and clinical research Rendell-Foam sets a new standard in the technique of contraception and will be widely prescribed when conception control is either necessary or desirable.

RENDELL-FOAM

★ Rendell-Foam is completely spermicidal and remarkably rapid in action. It is non-irritant, free from any objectionable odour, non-greasy and free from all insoluble substances.

★ It will keep indefinitely and is not affected by climatic conditions.

OTHER RENDELL PRODUCTS

RENDELLS

The World's Most Famous Contraceptive

SANTRON

The Modern Germicide

SANTRON CONCENTRATE

Health Service in a Tube

MENSINOLE

For Period Pains

Rendells PRODUCTS *for* FEMININE HYGIENE

W. J. RENDELL LTD., Manufacturing Chemists, 161-5 Rosebery Avenue, London, E.C.1. Engla

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LEASE MARK
OUR ORDERS

One Hole
OR 3-Hole
PERFORATION

It does not appear to be generally known that the "MODERN" Teat, now being sold in ever increasing numbers, is available both in 1-hole and 3-hole perforation. The mother's choice is dictated by the individual needs of Baby and it is well worth while to have both varieties in stock.

In an attractive, transparent pack, the "MODERN" Teat is backed by consistent National advertising. (From your regular wholesaler).

RETAILERS ! Send now for a supply of the new "MODERN" Weight Card and sales-promoting showcards direct to the manufacturers of the

"MODERN" ANTI-COLIC TEAT

N RUBBER MANUFACTURERS LTD. (Dept 18y) 5A WELBOURNE RD., TOTTENHAM, LONDON, N:17

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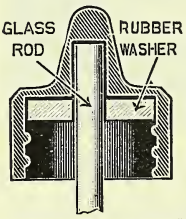
GOOD NEWS *for packers ! ! !*



THE **"HOLLODOME"**

Registered No. 816886

IODINE BOTTLE

replaces the now obsolete "Hollopeg"

- **The method of mounting the rod into cap ensures no loose brushes.**
- **The plastic cap is completely isolated from the contents, hence no discolouration of solution.**

Fig. 817/W

Prices : White Oval Bottles, complete with brush

½ oz.	1 oz.	2 oz.
5/6	5/10	6/8 dzn.

Special terms for export and large quantities on application.

From all leading wholesalers, or in case of difficulty direct from us:—

Actual Makers :

M. J. FECHER LTD.

121 HIGH STREET, SLOUGH, BUCKS. **SLOUGH 21864**

DISPLAY *sells more—and* MORE !

Send for New display material for

PHENSIC
CASSELL'S
VENO'S
GERMOLENE
GERMOLOIDS

These profitable family favourites sell more quickly over the nter when they are displayed for all to see. Seeing is buying! Showman- simplifies salesmanship! So please let us keep you right up-to-date with play material. Write today for a full set. DIRECT terms for the VENO ducts are: Combined orders amounting to £3 and upwards from qualified emists will be subject to 10% for display co-operation in addition to our usual % discount for monthly account.

NO DRUG CO. LTD. ST. HELENS, LANCASHIRE

FOUNDED COX 1839

The 'COX' ORGANISATION

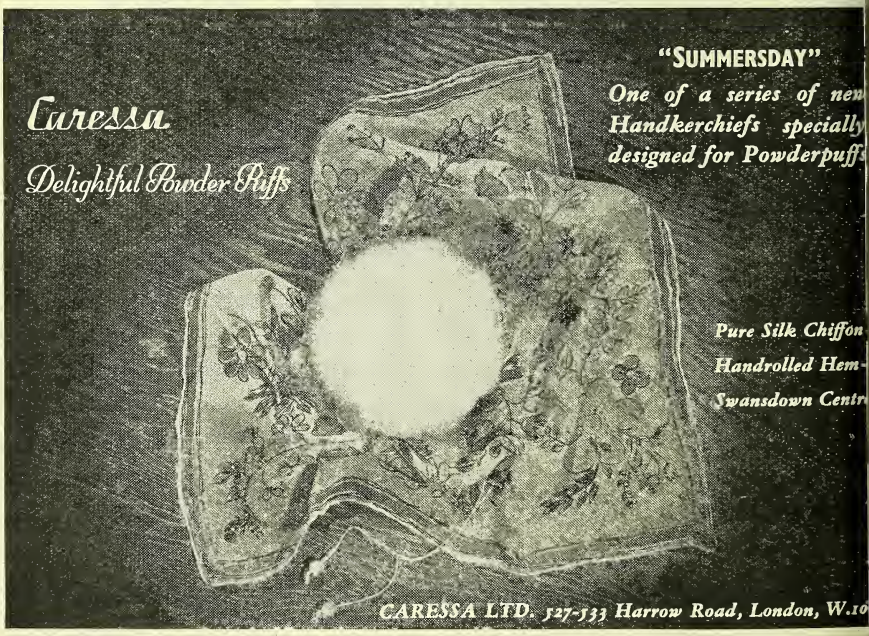
A leading authority on scientific

Pill and Tablet manufacture

Write us about your special needs
We specialise in Private Formula Work

ARTHUR H. COX & CO. LTD. BRIGHTON

THE WORD 'COX' IS A REGISTERED TRADE MARK



B.D.H.
SEX HORMONE PRODUCTS

The trend towards a wider use of sex hormone substances in dispensing is significant of modern therapeutics. The B.D.H. range includes all the preparations of the B.P. 1948 and N.F. 1949.

THE ŒSTROGENS

Æthinyl. Œstradiol.	'ESTIGYN'
Inj. Œstradiol Monobenz. B.P., N.F.	OESTROFORM (ampoules)
Tab. Œstron. B.P., N.F.	OESTROFORM (tablets)
Tab. Dienœstr. B.P., N.F.	DIENŒSTROL B.D.H. (tablets)
Tab. Stilbœstr. B.P., N.F.	STILBŒSTROL B.D.H. (tablets)
Tab. Hexœstr. B.P., N.F.	HEXŒSTROL B.D.H. (tablets)

Other medical products available are :—

Oestroform Ointment
Pessaries
Pellets for Implantation
(20 *mg. Œstradiol per pellet*)
Dienœstrol B.D.H. Ointment

Literature describing any of the B.D.H. Sex Hormone Products will be forwarded to pharmacists on request.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

SHor/T/4

GLANOID

FLAVOURED
ESSENCE OF
RENNET

RASPBERRY, STRAWBERRY,
LEMON, ORANGE,
VANILLA

1 OUNCE BOTTLES
sufficient for 8 pints of Junket
RETAIL
2/3
PER BOTTLE

JUNKET
TABLETS

Each Tablet Sufficient to Junket One Quart of Milk

Packed in Boxes of 12 Tubes

Each Tube contains 16 Tablets

Retail Price 1/3 per tube

JUNKET
POWDER

Packed in Boxes of 12 Tubes

Sufficient in each Tube to Junket 16 Quarts of Milk

Retail Price 1/3 per tube

SUPPLIES AVAILABLE

THE
Armour Laboratories
(ARMOUR AND COMPANY LTD.)
LINDSEY STREET · LONDON · E.C.1
Telephone - CLERKENWELL 9011
Telegrams "ARMOSATA-PHONE," LONDON

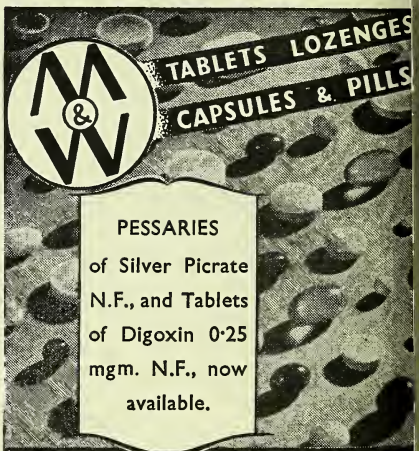
JACQUESIL FABRICS
LTD.
RED BANK MILLS, RADCLIFFE, Nr. MANCHESTER

makers of the famous
"DAWN"
REGD.
FACE CLOTH
can now offer a range of
FACE CLOTHS
RAZOR TOWELS
and
HAND TOWELS

FOR EXPORT

—unfortunately not for Home Trade

London Representative
G. H. BOLTON, Charterhouse Chambers
Charterhouse Square, E.C.1



MATTHEWS & WILSON LTD
Established 1894
6-8, COLE ST. LONDON, S.E.1
Proprietors of "SUDEX" Senna Pods
Telegrams: PILLEOLUM, SEDIST, LONDON. *Telephone:* HOP 2147-8

MAW'S AUTUMN EXHIBITIONS

are being held throughout Great Britain during the next few weeks

WE SHALL BE SHOWING AN EXCELLENT RANGE OF CHRISTMAS MERCHANDISE AND SEASONAL SUNDRIES. MOST ITEMS ARE NOW OF MAW'S PRE-WAR STANDARD AND QUALITY, BACKED BY AMPLE STOCKS FOR PROMPT DELIVERY

DON'T FAIL TO VISIT MAW'S EXHIBITION IN YOUR LOCALITY

Monday SEPT. 19 — Friday SEPT. 23 (incl.)

HANLEY (Stoke-on-Trent) - GRAND HOTEL
CHELTENHAM - ROYAL HOTEL
EDINBURGH - ROYAL HOTEL
BIRMINGHAM - COBDEN HOTEL (Cherry St.)

WEDNESDAY SEPT. 21 — FRIDAY SEPT. 30 (INCL.)

CARDIFF - PARK HOTEL

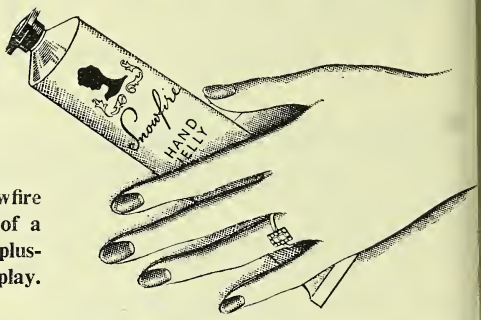
Open Daily until 11 o/c P.M.

FURTHER LIST NEXT WEEK

* IF YOU ARE COMING TO LONDON FOR THE CHEMISTS EXHIBITION LOOK IN AT MAW'S NEW WEST END SHOWROOM 67/68 JERMYN STREET S.W. 1
(*Opposite* EPPS, THATCHER & Co. CHEMISTS) *Phone* WHITEHALL 5255

S. MAW SON & SONS LTD. BARNET HERTS.

DISPLAY Snowfire HAND JELLY Bonus Offer



TWO BONUS OFFERS

1 FREE TWO DOZEN

An order for one gross of Snowfire Hand Jelly brings you, instead of a gross, *fourteen dozen.* The 'plus-two-dozen' is your bonus for display.

2 FREE HALF DOZEN

An order for half a gross of Snowfire Hand Jelly is charged only as 5½ dozen — plus half a dozen free for display.

This Snowfire Display Bonus Scheme starts *immediately* — right at the time when, with 'chapped hand days' looming ahead, heavier seasonal demand is clearly in sight. Place your orders now and reap instant benefit!

★★★

THREE-WAY SELLER

Snowfire Hand Jelly sells on QUALITY it has no rival as a hand treatment . . Secondly, it sells on PRICE : at 1/3 retail this product is exactly right for customers o every class . . . And thirdly, it sells o REPUTATION — built up by advertisin plus complete satisfaction. Each sale make more sales.

Snowfire HAND JELLY

F. W. HAMPSHIRE & CO. LTD · SUNNYDALE · DERBY

Richard Daniel & Son Ltd

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

"APENTA"

THE FAMOUS NATURAL HUNGARIAN APERIENT WATER IS

Back again

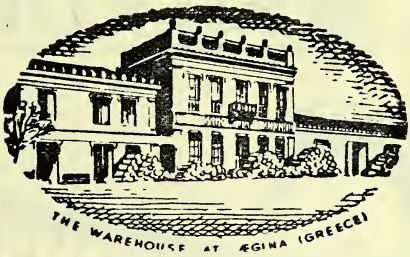
This wonderful health-giving Aperient Water sold in millions of bottles annually, before the war. "Apenta" is being featured by

The Apollinaris Co. Ltd.

AT THE CHEMISTS EXHIBITION

STAND 59

In addition "Presta" Fruit Squashes and Cordials, Apollinaris Natural Mineral Water and the leading French Spa Waters, will also be on show. If you are unable to visit this Stand please address enquiries to The Apollinaris Co., Ltd., 4 Stratford Place, London, W.1. *(New price list available.)*



"RELIANCE"

SPONGES

"FINE WHEN WET"

You can rely upon the House with over 100 years experience in the sponge industry to give you every possible satisfaction. Your enquiries will receive our courteous, prompt and knowledgeable attention.

CHEMISTS EXHIBITION
CENTRAL HALL, WESTMINSTER
★ STAND No. 74 ★

CRESSWELL BROS. SPONGES
(International Sponge Importers Ltd.)
International House
BUCK STREET, CAMDEN TOWN, N.W. 1
Gulliver 5462-3 Grams: Sponge, Norwest, London

HELP YOUR SHELF—

WITH *LUSTRSET!*

On your shelf, on your counter or in your window, the sparkling Lustrset display will bring *you* bigger sales and bigger profits! Already, National advertising is creating a widespread demand for this fresh, easy-to-use cream that gives lasting setting after shampooing and keeps hair firm and glossy without trace of dandruff.

If you are not yet stocking Lustrset, send for full details now. It's one of the Camila one range of fast-selling, sure-*selling hair beauty lines.*

The strik counterdisp box will s 'Lustrset' onsig

CAMILATONE

CAMILATONE LTD

EDGWARE RD. · WELSH HARP · LONDON · N.W.9

KILKOF

As a remedy for coughs, colds, catarrh, bronchitis and sore throats, Parkinsons' KILKOF has for years been a household word. Widely advertised during the winter months. Retail 1/6 per bottle

Manufactured by

PARKINSONS OF BURNLEY

Of all Parkinsons' products, none has done more to build up their makers' reputation than PARKINSONS' PILLS. Nationally known for a century

P.A.T.A

PARKINSONS' PILLS

It's Ritchie'

for YOUR Sundrie

HAIR BRUSHES
SHAVING BRUSHES
TOOTH BRUSHES
COMBS
SOAP CASES
ULTRA-VIOLET LAMPS
INFRA RED LAMPS
INFRADYSERS
BATHROOM SCALES
SURGICAL INSTRUMENTS

DRESSINGS OF A TYP
DUNLOPILLO CUSHIO
SPONTEX SPONG
ORTHO-GYNOL
ORTHO-CREME
ORTHO-DIAPHRAGI
FOOT SUPPORTS (ORTHO-PAD
BUNION PADS

Full particulars with pleasure from

Geo. B. Ritchi

& CO.

249 Buchanan St., Glasgow, C.

Daily: 9 a.m.—5.30 p.m. Sats. 1 p.m.
Tel: DOU 0532/3

DON'T MISS THIS C.E. Fulford

EXHIBITION BONUS OFFER

So many of our customers took advantage of our special Exhibition offer last year and wholeheartedly co-operated with us by giving attractive window and counter displays of our products that we are encouraged again this year to make the following bonus offer :—

To all Retailers purchasing £6 or over of our well-known products, **which can include the new 1/- size Zam-Buk and 1/3 size Zam-Buk Medicinal Cream** we give the choice of the following offers :—

An additional 5% discount over and above our present very profitable direct display parcel terms; or alternatively, if preferred, we will supply free of charge one of our attractive Bile Beans Rubber Floor Mats size 30″ × 18″.

BILE BEANS
PEPS
ZAM-BUK
OINTMENT
and Medicinal CREAM
ZAMCONES
ZAM-BUK Suppositories
KUTNOW'S
Effervescent SALINE
GUY'S TONIC
VEN-YUSA
.....
We look forward to seeing our friends at STAND No. 6

Make a note of these dates

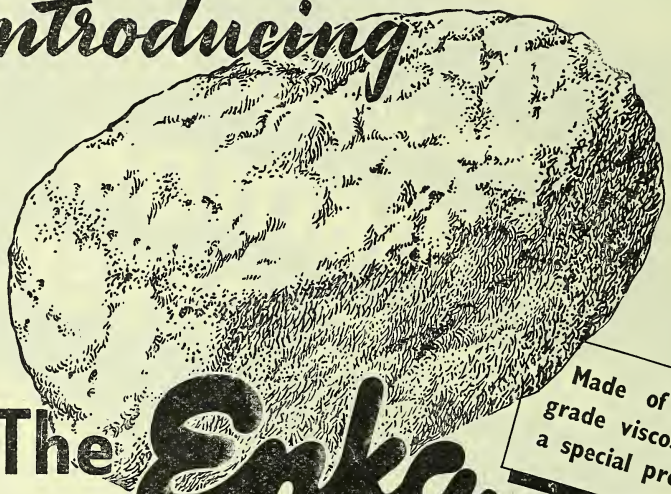
19 September and 31 October 1949

The above offer is open from 19th September to 31st October 1949 only. As all orders will be dealt with in strict rotation, please post your order by return.

ATA

C. E. FULFORD LTD., CARLTON HILL, LEEDS 2

Introducing



Made of high-grade viscose by a special process

The Enka SPONGE

DOES EVERYTHING A SPONGE DOES BETTER

- Soft and velvety when moi
- Easily cleaned. Can be boile any number of times
- Last much longer than a ordinary sponge
- Packed in attractive tran parent wrappers
- Competitive prices appea ing to all users
- Handsome showcards c trial orders

- Usual wholesale terms with extra discount for prompt payment on direct orders

Ask our representative to call. He will show you samples and give you further details of our sales terms

FROM 2/6 INCLUDING TAX

MACWILL & COMPANY LTD.
KINGSTON-ON-THAMES Telephone Kingston 8558

CARNEGIES OF WELWYN

specialize in the manufacture and distribution of

BISMUTH SALTS

CARBONATE
CITRATE
OXIDE
OXYCHLORIDE
OXYIODOGALLATE
SALICYLATE
SUBGALLATE
SUBIODIDE
SUBNITRATE
TRIBROMPHENATE

CARNEGIE CHEMICALS (WELWYN) LTD
CARNEGIE QUININE WORKS LTD
ELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND
ELEGRAMS: CARNECHEM, WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)

'CARNEGIES OF WELWYN' HAVE NO OTHER ADDRESS

NIVEA

window display BONUS

Each gross of the popular siz (2/3d.) Nivea Creme ordere qualifies for the special Windo Display Bonus of 1-dozen FREE

If, in addition, an order include other sizes or other Nivea product these also qualify at the same rat i.e. a deduction of 10/10d. for eac complete £6.10/-. FULL SHOW MATERIAL WITH EVER BONUS PARCEL.

NIVEA CREME'S unique com position makes it not onl invaluable for general skin care but also ideal for the three every day cosmetic uses—for cleansing as a nourishing night cream and used sparingly, as a powder base

Stock & display NIVEA CREME

It is the truly economical, "all-purpose, value for money" cream.

Popular size No. 368
Trade Price 10/10d. per doz.
Retail (incl. P. Tax) 2/3d. each

skin needs NIVEA

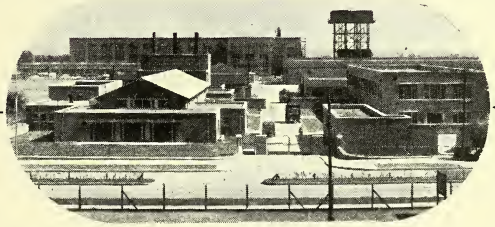
HERTS PHARMACEUTICALS LIMITED, WELWYN GARDEN CITY, HERTS. (C55)

PENICILLIN

MANUFACTURED BY

THE DISTILLERS COMPANY (BIOCHEMICALS) LTD.

LEMING ROAD SPEKE LIVERPOOL



This new display outer for Silvikrin Soapless Shampoo is sent automatically with your order for 3 dozen or more.

Put it on your counter and watch the results!

Sole Selling Agents: Prichard & Constance (Manufacturing) Ltd., North Circular Road N.W.10. *Telephone:* ELGar 8095

Silvikrin

SOAPLESS SHAMPOO

PHENOVIS' *brand*
PHENOTHIAZINE

Originally prepared in Great Britain in the research laboratories of I.C.I., 'Phenovis' is now established as the best anthelmintic for sheep and cattle.

It is most conveniently given as a drench, made by mixing 'Phenovis' dispersible powder with water.

Packings:

Cartons of 30 grammes—Tins of 1 lb. and ***7 lb.***

From your wholesaler or, in case of difficulty, apply to your nearest I.C.I. Sales Office—London, Bristol, Birmingham, Manchester, Glasgow, Edinburgh, Belfast and Dublin.

Further information and literature, together with 'Phenovis' dosing tables, display cards, etc., also available from I.C.I. Sales Offices.

IMPERIAL CHEMICAL [PHARMACEUTICALS] LTD.

(*A subsidiary company of Imperial Chemical Industries Ltd.*)

WILMSLOW, MANCHESTER

Ph.479

IT SELLS ON MERIT
ANOTHER BROBAT PRODUCT
HOUSEHOLD
BROBAT
Suds
WASHER
NO COUPONS
MORE THAN A SOAP SUBSTITUTE
CONTENTS 10 OUNCES
CONTROLLED 8½D PRICE
See the DIRT ROLL OUT
BROBAT 8½
It isn't just heavy-gun advertising that's making BROBAT SUDS a 'big-money' proposition for chemists. This wonder-washer, well advertised as it is, is selling on performance! Women have been quick to appreciate that Brobat Suds' richer, longer-lasting lather and unrivalled de-greasing properties make BROBAT SUDS the 'buy' to buy again and again. Put a show in your window and you, too, will Sell BROBAT SUDS With Pride and Profit
NATIONALLY ADVERTISED
Spend less time at the sink!
Now for all your washing and household cleaning — BROBAT SUDS! Most helpful and economical washer you can buy. Its "live lather" rolls out the dirt without boiling. Harmless to fabrics, it washes clothes whiter, brighter, cleaner: leaves no 'scum'.
BROBAT Suds
YOU CAN'T BETTER
BROBAT Suds
Write NOW for sample, trade terms to:—
BROBAT MANUFACTURING CO LTD • WANDLE BANK LONDON S.W.19

(10

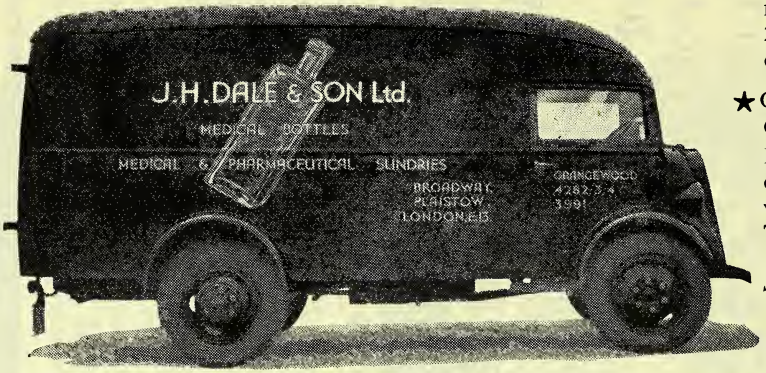
SERVICE with SPEED

Due to the enlargement of our present offices and warehouses and the acquisition of new premises we are now able to improve the speed of our delivery service . . .

★ ALL TYPES AND SIZES OF BOTTLES SUPPLIED FROM STOCK.

★ PERSONAL SUPERVISION OF ALL ORDERS.

★ ATTENTION TO DETAIL—COURTEOUS AND CLEAN UNLOADING—GOOD DISCOUNTS FOR PROMPT PAYMENT.



★ INSIDE A RADIUS OF 25 MILES
Delivery by our own fleet of vans within 24 hours of reception of the order.

★ OUTSIDE A RADIUS OF 25 MILES
Immediate despatch of orders by our own vans, or by Road Transport.

Send your order by mail, 'phone or telegram.

J. H. DALE & SON, LTD.

Medical Bottles and Pharmaceutical Sundries

BROADWAY, PLAISTOW, E.13

GRANGEWOOD 4282/3/4 AND 3991

COMPLETE STOCKS

Personal Attention

Phone, Write or Call for

- PROPRIETARY GOODS
- Pharmaceutical Preparations
- Dressings and Cotton Wools
- DRUGS AND SUNDRIES
- TOILET REQUISITES

Daily Deliveries in the London Area

SIDNICK & CO., LTD.

11-12, FINSBURY SQUARE, LONDON, E.C.2

Telephone: MONARCH 5642/3

YOUR PROBLEM

of manufacturing, packing and despatching your own private formula product can be eased by an early consultation with

H. O. Lloyd (Cheltenham) Lt

1, 10, 11 Suffolk Parad

Cheltenham Glos.

Phone : 4949

MODERN PLANT, PROMPT AND EFFICIENT SERVICE, EXPERT SUPERVISION AND SECURITY.

WRITE TODAY

Two Useful Products

TONALIX TONIC RESTORATIVE

Specially formulated to assist body tone generally.

KEEDOSOL NON-TOXIC GERMICIDE

A general antiseptic of high bactericidal activity.

Prepared in the laboratories of

FERRIS & CO. LTD., BRISTOL

KNOW YOUR COSTS

Why be worried with staff and overheads when you c send your products to us for packing.

Output can be increased or decreased to suit prevaili markets, therefore, you are not committed to hold lar stocks or staff and your overheads are cut to a minimu

Let us quote you

T. J. FAVELL & CO. LTD.

192 Seven Sisters Road, London, N.4

ARChway 1846

The House for

TABLETS & PILLS

A complete range supplied packed or in bulk. Also we make to private and special formulæ.

PROPRIETARY REMEDIES PREPARED & PACKED

BULK TABLETS

supplied in convenient quantities from 100 upwards

Copy of our N.F. 1949 list sent on request.

SACCHARIN TABLETS in pkts. of 100 or in Bulk.

The COOPER Laboratory Ltd

THE SPECIALIST HOUSE

WATFORD

This is it!

THE EXCITING NEW

CREAM SHAMPOO DISCOVERY

THAT MEANS EXTRA BUSINESS IN SHOP AND SALON

Here it is! Lustre-Creme, the new *cream* shampoo that's fast becoming the sensation of hairdressing salons and cosmetic counters. Lustre-Creme, the new *cream* shampoo made by Colgate-Palmolive-Peet to bring you extra business and higher profits.

Here are the facts. Retail price 2/9d. Packed in handsome jars ready for immediate use. Carries a high profit margin. Supported by heavy and prolonged advertising campaign in all the big circulation daily and sunday newspapers.

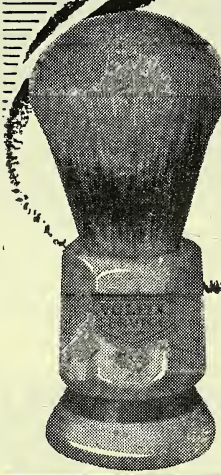
Big selling features. Instant scum-free lather in hardest water. Needs no after rinses other than water. Contains Lanolin, the *natural* dry scalp corrective. Leaves hair lustrous and manageable.

Cosmetic buyers! Lustre-Creme is your opportunity to feature a shampoo that will *not* stick on your shelves. Lustre-Creme is here to *sell*. Order supplies now.

Lustre-Creme Shampoo

WITH LANOLIN

COLGATE-PALMOLIVE-PEET LTD., 145 CHARING CROSS ROAD, LONDON, W.C.2



VULFIX—the present with a BIG future!

VULFIX Service Shaving Brushes will be sure best sellers this Christmas. Here is a really practical present that bears a personal touch!

VULFIX shaving brushes are available in four sizes—"Service" No's. 1, 2, 3 and 4, at popular prices ranging from 3/11d. to 8/9d. Every brush is a quality article with pure bristles and carries a TWO YEAR GUARANTEE!

To aid your sales between now and Christmas, lively press advertisements will appear in a number of National newspapers having a huge coast-to-coast coverage, with readership appeal to all classes.

Be prepared for a big demand. Stock up with VULFIX now!

VULFIX "Service" Shaving BRUSHES

PROGRESS SHAVING BRUSH Co., Ltd., Mottram Street, Stockport
49 Leadenhall Street, London, E.C.3.

THE BRUSH WITH THE TWO YEARS GUARANTEE

DRUGS · GALENICALS
PROPRIETARIES

Makers of Vitasac Regd. THE PERFECT BABY FOOD

R. SUMNER & CO. LTD.
HANOVER STREET · LIVERPOOL 1. and at CARDIFF.

Worth selling! P.A.T.A.

FENOLIN FLUID
ELDON Vaporiser
FOR WHOOPING COUGH
Licoricine FOR COUGHS AND COLDS

HALL FORSTER & CO. LTD.,
NEWCASTLE UPON TYNE

MILLAMALT

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400 I.U. PER FL. OZ.)
Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

JM

Malt Extract with added Natural Vitamins

STANDARD SACCHARIN TABLETS

ENQUIRIES INVITED

THE DALES ASPIRIN & TABLETING CO.
STEETON, Nr. KEIGHLEY
Phone: STEETON 3222

F. W. HAMPSHIRE & CO. LTD., MANUFACTURING CHEMISTS, DERBY

Important Announcement

DISPLAY BONUS OFFERS TO CHEMISTS AND DRUGGISTS

1/3d. Snowfire Hand Jelly

1 gross invoiced. 14 dozen sent
6 dozen charged as 5½ dozen

1/6d. and 2/9½d. Zubes Cough Mixture

1 gross charged as 10½ dozen
6 dozen charged as 5½ dozen

Snowfire Healing Tablets—all sizes

3 gross invoiced. 3½ gross sent
2 gross invoiced. 2¼ gross sent
1 gross invoiced. 13 dozen sent

1/8d. Zubes Inhaler

7 dozen charged as 6 dozen
3 dozen charged as 2¾ dozen

Balsamic Emulsion—all sizes

6 dozen charged as 5½ dozen
3 dozen charged as 2¾ dozen

CONDITIONS—14 days window or counter display to be given to qualify for any of these bonuses. Applicable to first order of season for delivery in one consignment. Any of the above bonus offers will be sent carriage paid.

These products have a national reputation and are nationally advertised. Make sure of your share of sales by displaying them.

All orders dealt with in strict rotation.
Order well ahead of your requirements.

F. W. HAMPSHIRE & CO. LIMITED
SUNNYDALE · DERBY

BIOLOGICAL MBL PREPARATION

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTE IDENTICAL WITH THAT OF PRE-WAR PREPARATIO

because of our heavy purchases immediately before war broke out. Our stoc are still considerable and the high MBL standard will be fully maintaine

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATION

		Retail Prices (inclusive of Tax)	CHEMISTS' PRICE Per unit Net +	Purchase Tax	CHEMISTS' PRICE Per dozen Net +	Purch Tax
ANTIPEOL						
OINTMENT	4 oz. tube	7/5	4/2½	+ 1/5	50/5	+ 16/
	40 gr. „	3/8½	2/1½	+ 8½	25/3	+ 8/
	20 gr. „	2/1	1/2	+ 5	14/–	+ 4/
LIQUID	40 c.c. bottle	3/8½	2/1½	+ 8½	25/3	+ 8/
OPHTHALMO-ANTIPEOL						
20 gr. Nozzled Tube		3/8½	2/1½	+ 8½	25/3	+ 8/
8 gr. „ „		1/9	1/–	+ 4	11/11	+ 4/
RHINO-ANTIPEOL						
20 gr. Nozzled Tube		3/1	1/9	+ 7	21/-	+ 7/
8 gr. „ „		1/9	1/–	+ 4	11/11	+ 4/
ENTEROFAGOS						
Box of 50 ampoules		19/-	13/3½	None	159/7	No
„ 10 „		4/3	3/–	None	35/8	No
„ 5 „		2/6	1/9	None	21/–	No
DETENSYL						
Tin of 500 tablets		43/-	24/–	+ 8/–	288/–	+ 96/
Tube of 50 „		4/11	2/8½	+ 11	32/4	+ 10/
ST. JAMES' BALM						
Tin of approx. 2½ oz.		3/1½	1/11	+ 7½	22/6	+ 7/
„ „ 1 oz.		1/7	11	+ 4	11/3	+ 3/

Carriage paid on all orders of 1 dozen or £1 and over.
Terms : NETT, Monthly Account.

MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.2

MOTHS

STILL BUSY

KEEP USING

MOTHAKS

8 FOR 8d.

No doubt you have seen the above advertisement in the National Press this month. We inserted it because the sales of MOTHAKS in May, June and July were an all time record, and orders for MOTHAKS are still pouring in. It is astonishing that there are such enormous numbers of moths flying about, and worse still, these moths are destroying valuable materials.

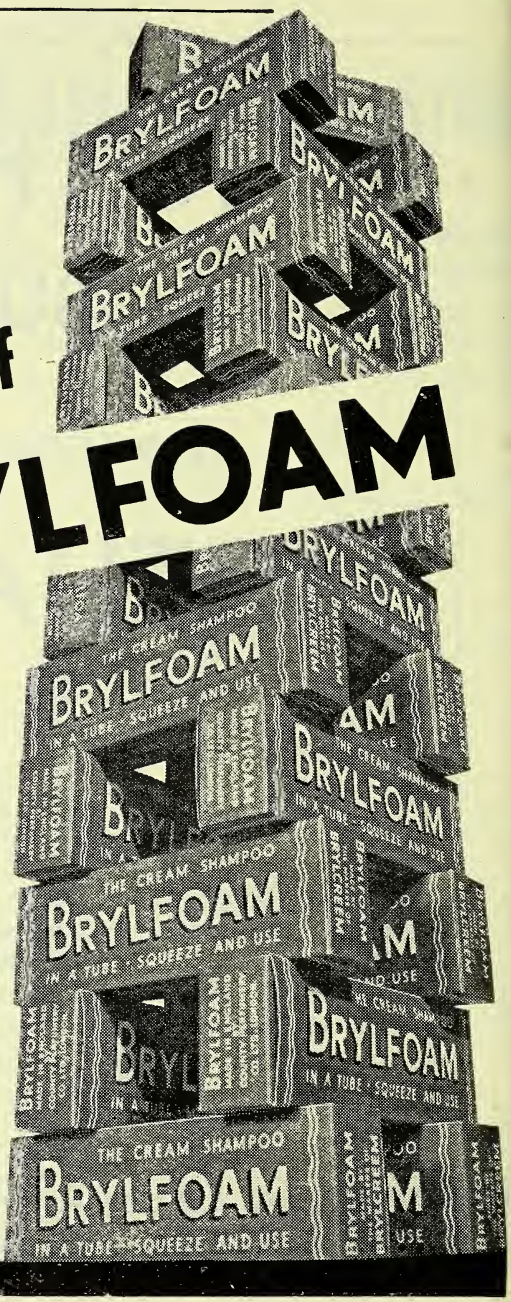
Sole Makers :—

THOMPSON & CAPPER WHOLESALE LTD

LIVERPOOL, 19

MORE REASON TO

Take good stock of BRYLFOAM

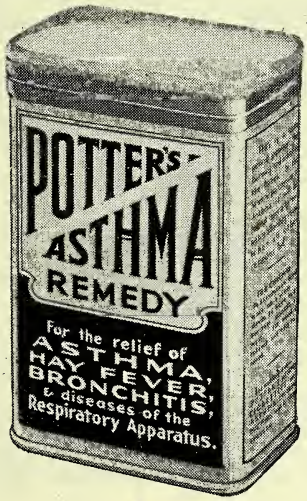


● Brylfoam is the largest-selling cream shampoo—because of the way it leaves the hair radiantly clean, sparkling with health. And bigger-than-ever advertising is going to make it a still bigger seller—national press advertisements alone mean readership by more than 20,000,000 women. Here's your opportunity to cash in on this by making a big feature of counter and window displays. Make sure you can always meet the demand for Brylfoam—it shampoos hair to perfection and is unequalled for efficiency, economy and speed . . . Speedy action, speedy sales, speedy profits!

COUNTY PERFUMERY Co. LTD.
HONEYPOT LANE,
STANMORE, MIDDLESEX.

Potter's

ASTHMA REMEDY



Price **2/5** per Tin (inc. tax) Wholesale **18/-** per doz. (plus 6/- per doz. tax)

Packed in half dozens

Well advertised and world famous
A sound selling line for every Chemist

POTTER & CLARKE LTD.
60-64 ARTILLERY LANE, LONDON, E.1
Telephone: BIShopsgate 4761
and 77 DANTZIC STREET, MANCHESTER, 4
Telephone: BLAckfriars 8734

News from DALMAS of Leicester

New *waterproof* protectio for cuts

A NEW-TYPE ADHESIVE STRAPPING

Waterproof . . . has 101 First-Aid uses

DALMAS STRAPPING, a new *waterproof* plastic adhesive with 101 first-aid and other uses, is now in widespread demand everywhere. Because of this, supplies have been greatly increased.

These spools are handy

Dalmas Strapping can be cut to any size, gives 100% protection against water, dirt, grease and acid. That's why it's specially suitable for tiny cuts, sore places, torn finger nails, etc. In particular, it is ideal wherever the fixing of a bandage would be awkward. Dalmas Strapping stretches *all* ways, so edges stick tight while allowing free movement of joints and muscles. Attractive counter sell-outs contain twelve 1/- spools, each 1 inch by 1 yard, price 8/-, or 24 spools, price 16/-. Also in 3-yard lengths, and in 2 inch and 3 inch widths.

DALMAS HEEL DRESSINGS. A new *waterproof* dressing that is specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS FINGER-TIP DRESSINGS. A new *waterproof* adhesive protection for cracked, cut or sore finger-tips. Handy boxes, 8/- per dozen, to retail at 1/- each.

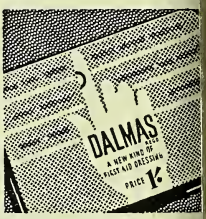
DALMAS BOIL PLASTERS. A new *waterproof* protective dressing for boils. Skin-coloured, hardly shows. Handy boxes, price 10d. retail, including tax.

Heavy demand for Dalmas First-Aid Dressings

TO meet the nation-wide demand, we ha further increased supplies of Dalma the *waterproof* plastic dressing that offers totally new method of protecting cuts a minor wounds.

Dalmas gives 100% protection again water, dirt, grease and acid. So you ne only cover the affected place and . . . further trouble! You can actually *wa with it on.*

Dalmas stretches *all* ways (not just one way). That's why edges stick tight, cannot fray, cannot catch in clothes. What's more, Dalmas lessens infection risk, promotes safe and easy healing.



Display this box on yo counter

Dalmas is skin-coloured, hardly show In attractive blue-and-white counter sel outs, containing three dozen 1/- boxes, pric 8/- per dozen. Special quantity discount PLACE YOUR ORDER NOW!

A. de St. Dalmas & Co. Ltd.

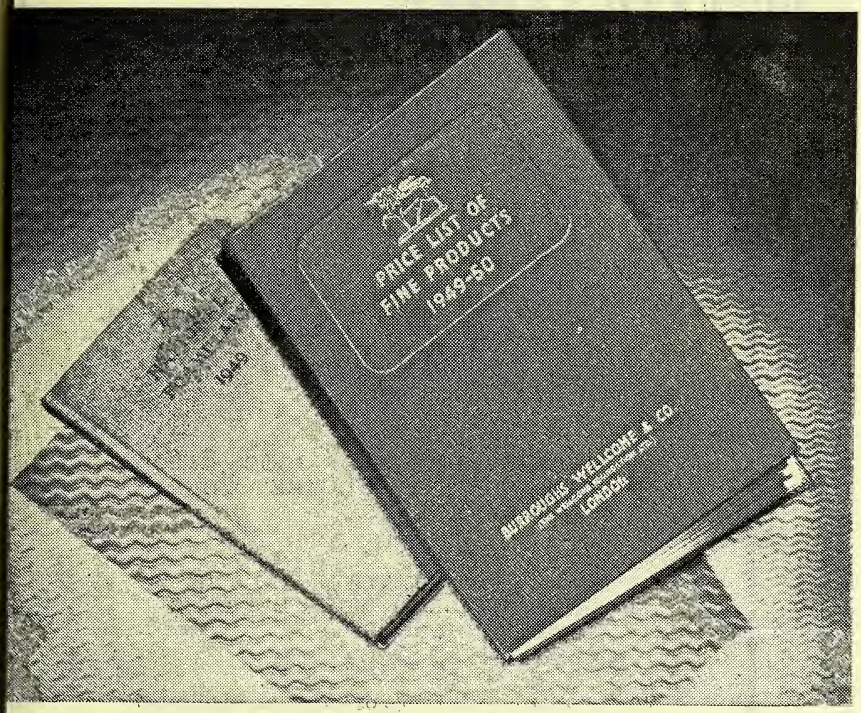
LEICESTER (Phone: Leicester 65261)

London Depot: **140-142 St. John St., E.C.**
(Clerkenwell 3399)

Leeds Depot: **14 Neville Street**
(Leeds 29764)

Scottish Agents:
Robert Telford, 29 Waterloo St., Glasgow, C.
(Central 2716)

RUGS OF OUTSTANDING QUALITY



. . . *at prices well within the tariff*

y dispensing first-class drugs you win the lasting confidence of customers. That is why many leading pharmacists dispense 'B. W. & Co.' Backed by over sixty years' perience of pharmaceutical manufacture, 'B. W. & Co.' Fine Products conform to the ost exacting standards of precision and purity . . . yet prices are well within the drug riff. The extensive range of preparations available covers almost all the compressed roducts and injections listed in the National Formulary.

'B. W. & CO.' FINE PRODUCTS

BURROUGHS WELLCOME & CO. *(THE WELLCOME FOUNDATION LTD.)* LONDON

PRIVATE LABELS

Have you considered the advantages of Individual Packs ?

For instance —

- **REPEAT SALES CAN ONLY BE HAD FROM YOU.**
- **THE FORMULÆ OF GOODS CAN BE SELECTED TO MEET YOUR REQUIREMENTS.**
- **YOUR REPUTATION AND THE GOODWILL OF YOUR BUSINESS ARE ENHANCED.**

We can offer a wide range of Capsules, Medicated Pastilles, Lozenges, Tablets and Ointments, all of unquestionable quality, well packed with special labels designed to your requirements.

You may be sure that any goods we pack for you will be a credit to your pharmacy

Kindly send us your enquiries, or ask for our representative to call.

WARRICK Bros. Ltd.
4 to 10, NILE ST., LONDON, N.1.

The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

SEPTEMBER 17, 1949

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

le copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3630 Volume CLII

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NEWS OF THE WEEK

Spectacles Under N.H.S.—To relieve ays in the supply of spectacles, the nister of Health has introduced arrangeents enabling opticians to postpone in ropriate cases the ordering of a second r of glasses. The ophthalmic medical ctitioner or ophthalmic optician will icate on the prescription form for the ond pair of glasses that it should not supplied until a specified time after the t pair.

Milk and Dairies Regulations, 1949.—circular (87/49) from the Ministry of alth calls attention to certain points in Milk and Dairies Regulations, 1949. hereas Article 18 of the Milk and Dairies der, 1926 limited the power of county uncils and analogous bodies to stop any pply of milk to cases of infection with tifiable disease, that power is now exded to cases of any disease communicle to man by consuming milk.

Distribution of Doctors.—The Medical actices Committee set up under the alth Act issued a report recently to the Minister of Health on its first year's work. It states that the impact of the Act and the economic circumstances which flow from it are already exercising an effect on the distribution of general practitioners in England and Wales. During the year a survey of the country has been made and places are listed under the following headings: places where more doctors are needed; places open to any doctor wishing to practise; doubtful areas, and closed areas, where there are sufficient doctors.

Increases in Soap Rationing.—As from the eight-week period beginning November 6, the allowance of soap to holders of ration books R.B.1 (General) and R.B.4 (Junior) will be increased from seven to eight rations per eight weeks, and to holders of ration books R.B.2 (Child) from eight to nine rations per eight weeks. The extra ration will be obtainable in the second four weeks of each eight week period, when the two "Soap" coupons in ration books R.B.1 and R.B.4 will each be worth two rations and in ration books

R.B.2 two and three rations, respectively. Children up to two years of age will continue to receive an extra eight rations per eight-week period in addition to the normal child's allowance. Soap allowances to non-domestic users (including catering establishments and institutions but excluding those categories of user whose soap allowances were not reduced in 1946) will be increased by one-twelfth. It has been decided to remove control from soap substitutes packed for retail sale. As from November 6 the Soap Substitutes (Labelling and Prices) Order 1943 will be revoked.

Key Industry Duty Exemptions.—The Treasury have made an Order under Section 10 of the Finance Act, 1926 exempting from Key industry duty the following amyl alcohol, namely pentanol-2, and the following hexane diol, namely, 2-methyl-2, 4-pentane diol, for the period beginning September 19, 1949, and ending December 31, 1949. The Order is entitled "The Safeguarding of Industries (Exemption) (No. 6) Order, 1949" and is published as S.I. 1949, No. 1677. Copies may be obtained from the sales offices of H.M. Stationery Office, Kingsway, London, W.C.2. Price 1d.

Packaging Testing Service.—The Printing, Packaging and Allied Trades' Research Association have brought into full use a laboratory in Leatherhead at which British manufacturers of packages and products can now have their packs submitted to rigorous tests simulating the conditions they are subjected to in transit at home and abroad.

Pharmaceutical Federation Conference.—The eighteenth General Assembly of the International Federation of Pharmacy was opened at Amsterdam on August 29. Authors from Britain who read papers at the Conference included Professor H. Brindle (on the oral administration of penicillin), Dr. I. Michaels (the toxicity of penicillin and streptomycin solutions), Professor J. P. Todd (pyrogens), Dr. F. Wokes (standardisation of B vitamins in yeast and malt preparations), Mr. S. J. Relph (pharmaceutical education), and Dr. J. M. Rowson. The Pharmaceutical Society of Great Britain was represented by the president (Mr. H. Clement Shaw), Professors Brindle and Todd, Dr. J. M. Rowson, Mr. E. A. Brocklehurst, Miss M. A. Burr, Mr. J. F. McNeal (Council members), and Mr. H. N. Linstead (secretary). Mr. F. W. Adams (secretary and registrar) accompanied th delegation.

International Students' Dinner.—Afte the conclusion of the formal inauguratio of the International Pharmacy Student Federation in London recently (*C. & D* September 3, p. 307) the Federation hel an official dinner at which the chief guest were Messrs. F. W. Adams (registra Pharmaceutical Society) and H. Nobl (secretary, National Pharmaceutica Union). Proposing "The Pharmaceutica Society of Great Britain," Mr. A. M Hamilton (president, British Pharmaceu tical Students' Association), on behalf o the delegates, thanked the Pharmaceutica Society for the use of its Council chambe in which to hold the discussions during th week. Mr. Adams, replying, remarked o the friendly relationships he had notice among the delegates. The Society, h said, welcomed the formation of an inter national students' body, and would giv them any assistance possible. Mr. Noble who proposed the toast of "The I.P.S.F., stressed the value of international co operation and discussion in all sphere All the delegates, he said, seemed to hav achieved an international outlook durin the few days of the conference. Mr Relph (president, I.P.S.F.) replied. Th toast "Our Guests from Abroad" wa proposed by Mr. Box (foreign corres ponding secretary of B.P.S.A.) and replie to by representatives from Holland, Den mark, Eire, Switzerland, Sweden an Austria.

LOCAL NEWS

Champagne on Prescription.—Cardigan shire Health Executive on September referred to a Medical Service Committe the matter of recovering from a doctor th cost of a prescription classed as "never drug." The prescription was for a bottl of champagne, costing £1 7s. 5d., whic a doctor stated was prescribed for sever vomiting after other drugs had failed.

London Chemists' Golf.—The Londor Chemists' Golfing Society held a meetin at Old Fold Manor, Barnet, on Septem ber 8. The bogey competition for th Sanger Cup resulted in a tie betwee Messrs. E. G. Smith (scratch) and G. H Hankinson (7), two down. The issue wa decided on the last nine holes when Mr E. G. Smith was adjudged the winner. A second competition (Stapleford) for th Morny prize was won by Mr. Gordo Smith (16), 34.

OVERSEAS NEWS

Guatemalan Essential Oils.—A pro-ers' association, Oficina Controladora Aceites Esenciales, has been granted exclusive rights for exporting citro-la and lemongrass oils from Guatemala.

New Herring Oil Plant for Sweden.—e Federation of Swedish West Coast hermen is reported to be planning the ction of a new herring oil plant on rkö or Oeckerö at a cost of about 00,000 kronor. The plant will process e 3,000 cases of herring a day.

India's Shellac Exports.—Of India's l shipments of shellac in June, amount-to 14,680 packages, the United King-n purchased 6,432 packages. In June 8, when total exports were 20,741 kages, 4,293 were consigned to the tish market.

Turin Fair.—The International Western de Fair, Turin, Italy, September 10 to includes exhibits of pharmaceutical ducts and toilet goods, photographic optical apparatus. Several British npanies are understood to have booked ce as exhibitors.

U.S. Grants to Research and Education. The American company, E. I. du Pont Nemours & Co., is to make grants-in-of $10,000 each to ten American iversities for chemical research. The w York University, Bellevue Medical ntre, has received a gift of more than million from the Samuel H. Kress ndation.

New Factory in Toronto.—The Cana-n subsidiary of Allen & Hanburys, Ltd., ndon, has completed the purchase of a in Wilson Avenue, Toronto, for the ction of a factory containing about 000 square feet of floor space. In the t the Canadian company has main-ned a plant at Lindsay, Ontario, which, due course, will be merged into the new tory at Toronto.

U.S. Food and Drug Prosecutions.—e annual report of the United States od and Drug Administration records t 421 criminal prosecutions were insti-ted against alleged offenders against deral food, drug and cosmetic regula-ns during 1948. A record number of ducts were recalled from the market ing to errors in compounding and label-g, but, the report comments, legal tions gave neither a fair nor complete picture of the industries, as careless and deliberate violators of the law represented a minority of the country's producers.

ULSTER CHEMISTS' ASSOCIATION

THE monthly meeting of the Executive Committee of the Ulster Chemists' Association was held in Belfast on September 6, Miss C. E. Culbert in the chair. On the motion of MR. JOHN MCGREGOR a vote of sympathy was passed with the widow and family of Mr. William J. Hardy, J.P. Mr. McGregor said that in Mr. Hardy's death pharmacy had lost one of its outstanding personalities. He was a foundation member and former president of the Pharmaceutical Society of Northern Ireland and a trustee and twice president of the Ulster Chemists' Association. The present success of the Association was largely due to his work in its early years. Sympathy was also expressed with the relatives of the late Mr. G. Cheevers, Keady, and with Mr. J. H. Gowans, Belfast, on the death of his wife. In response to an invitation by the Ministry of Labour and National Insurance Mr. James Dundee, Whiteabbey, was nominated to act as employers' representative on the local tribunals at Belfast.

The following were elected to membership:—J. McAufield, Ltd., Belfast; City Chemists, Ltd., Belfast; J. D. Irwin, Ph.C., Enniskillen (successor to Mrs. I. Topping, Ph.C.); A. L. Martin, Ph.C., Portadown. The following were elected associates: Ph.C's—Miss B. Montague, J. G. Keegan; Assistants—Miss J. Irvine, Miss P. McDonald, H. McCollum, K. J. Smith; Apprentices—C. Mulholland, G. C. A. McGowan, N. McCullough.

The SECRETARY (Miss A. E. Strachan) reported that of the eight members of Committee due to retire at the annual meeting the following had offered themselves for re-election: Miss L. M. Forrest, Messrs. J. C. Acheson, H. S. Anderson, J. Caldwell, H. P. Crossin, W. S. Hall and C. A. Quinn. It was regretted that Miss E. Wellwood found she could not do so. Various price changes were approved. Further consideration was given to the rota scheme for late service in Belfast drawn up at the request of the General Health Services Board for introduction immediately the 6.30 p.m. closing order made by the Belfast Corporation is confirmed by the Ministry of Home Affairs.

NEW COMPANIES

MARION DRUGS & PERFUMERY CO., LTD. (P.C.)—Capital £100. Christine M. T. Jolliffe and Edward W. Algar, directors. R.O.: 90 Turnham Green Terrace, London, W.4.

WEST WIGHT PHARMACY, LTD. (P.C.)—Capital £100. To carry on the business of chemists and druggists, etc. Eric F. Toogood, Frank Toogood, and William Tait, directors. R.O.: Regent Buildings, Station Road, Freshwater, I.o.W.

ARTHUR SANT, LTD. (P.C.)—Capital £4,000. To carry on the business of chemists and druggists, etc. First directors are to be appointed. R.O.: Victoria Chambers, Station Road, Tunstall, Stafford.

V.I.P., LTD. (P.C.)—Capital £100. To carry on the business of buyers and sellers of and dealers in chemical products of all kinds, etc. First directors are to be appointed. R.O.: Scotts Road, Southall, Middlesex.

STEWART & CHAPMAN, LTD. (P.C.).—Registered in Belfast. Capital £2,000. To carry on the business of pharmaceutical and dispensing chemists, etc. William Stewart and Jacob Chapman, M.P.S.N.I., directors, Cohannon, Tamnamore, Dungannon.

CHEMIA PRODUCTS (U.K.), LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers and refiners of, and dealers in, chemicals of all kinds, etc. James Lowe and Charles H. Warbey, directors, 72 New Cavendish Street, London, W.1.

KINGSLEY & CO. (BRIGHTON), LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturing, wholesale and retail chemists and druggists; opticians, photographers, perfumers, etc. Mary A. Dyson and Leslie Dyson, directors. R.O.: 50 Queen's Road, Brighton.

UNION CRYSTALEX GELATINE, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of, and wholesale and retail dealers in, gelatins, gelatin products. etc. Alfred A. Boucher, director. R.O.: Cransley Works, Garrett Street, Golden Lane, London, E.C.1.

KINNEL (SLOUGH), LTD. (P.C.)—Capital £1,500. To carry on the business of manufacturing pharmaceutical and general chemists, etc. Ernest G. Smith, John A. R. Kingham, Alexander Innes an Cyril J. Hernaman, directors. R.O.: 1 Mackenzie Street, Slough.

SANIGUARD APPLIANCES, LTD. (P.C.)-Capital £100. To carry on the business manufacturers of and dealers in medica surgical, sanitary and veterinary appl ances, instruments and equipment, et Sam Lewis and Polly Lewis, director R.O.: 3 Broad Street Buildings, Liverpo Street, London, E.C.2.

Company News

LUFT-TANGEE (LONDON), LTD.—M Stuart L. Fritche has resigned his directo ship of the company and will be succeede as from October 1 by Mr. Stanley Par who has been with the American pare company for many years.

BUSINESS CHANGES

JOHNSONS OF HENDON, LTD., have ap pointed Mr. J. D. Payne to their staff a technical representative. Mr. Payne ha been many years in the photographic in dustry.

WESTMINSTER LABORATORIES, LTD Chalcot Road, London, N.W.1, announc the appointment of Mr. R. A. Finn a home sales manager and Mr. W. B. Lyn as advertising manager.

DR. POWELL, B.M., B.Ch., has joine the headquarters staff of Evans Medica Supplies, Ltd., Speke, Liverpool, 19. an will be in charge of the medical informa tion department.

PAL CHEMICALS, LTD., announce tha from October 1 the address of their offic and works will be River Road, Barking Essex (Telephone: Rippleway 2445). Th company's Bray research station remain at Glebe Road, Bray, Berks (Telephone Maidenhead 2769).

THE IMPORT LICENSING DEPARTMENT O THE BOARD OF TRADE (with the exceptio of the Machinery Section and the staf dealing with European Recovery Pro gramme claims) will be transferred as fron Monday, September 19, from their presen premises in Regent Street, W.1, to Romne House, Tufton Street, Westminster, S.W. (Telephone number Abbey 9080). Th Machinery Section and the staff dealin with E.R.P. claims will remain at 91 Vic toria Street, S.W.1 (Telephone numbe Abbey 7898).

TOPICAL REFLECTIONS

Ninety Years' Record

Congratulation on your ninetieth anniversary is my congenial task in this paraph. The article on pp. 350-56, recording history of THE CHEMIST AND DRUGGIST mpts more reflections than I have space indicate. One of them claims rity. I have realised, once more, how tunate it was for the chemists and drugs of this country that the *C. & D.* an to appear just when it did. The rmacy Act of 1852 fell short of what uld have been its objective by failing provide for the organisation of the jority of chemists in business. The ation of a limited class of well-trained rmaceutical chemists was a step in the t direction, but was not enough. The k and file felt that they had been overked; hence the formation of the United iety of Chemists and Druggists. In the ring events that led up to the passing the Act of 1868 you drew fire from sides—a not uncommon experience for se who practise as well as profess imtiality. But you have continued with onsistent policy, giving a lead when it desirable but never attempting to ern. Your backing has been invaluable such worries as those arising from the fiteering Acts, the first Dangerous Drugs and the municipal dispensing campaign 1923. Some of your younger readers, o have made acquaintance with your vice during the second world war, have to learn how much THE CHEMIST AND UGGIST can provide in comprehensive vs, in fair comment and in articles by erts. One day, we may hope, there will enough paper available for these purses.

Comparison

One thought that chemists in business hardly fail to formulate on reading r record is: Are we better off than our decessors of 1859? In respect of statuy recognition they undoubtedly are. til 1868 chemists and druggists sat be the salt, so to speak: they were menned in the Charter and in the Act of 52, but as inferiors. In 1868 they were en independent status; in 1908 they re allowed to call themselves pharmacists they desired; in 1933 they became regised pharmacists on complying with the nditions laid down in the Pharmacy and isons Act. Again, those who have quali-d during the past twenty years or thereabouts are—or should be—better trained than their predecessors. Some of your readers may raise the objection that these changes in status and education cut no ice with the public. That seems to me a shallow view. In any court of law the difference between the unexamined and unregistered chemist and druggist of 1859 and the registered pharmacist of 1949 is definite and important; this fact may well filter through, even if in an attenuated form, to the average citizen. And the improved training should give the recently qualified a surer grasp of the nature of the medicaments they handle than pharmacists of former generations could command. Whether there has been any real improvement in remuneration is a question that I must leave to students of economics.

A Tudor Enactment

An Act of the latter part of Henry the Eighth's reign has again come to the fore among your legal reports (p. 335). We read of it at intervals, sometimes in cases where its relevance is difficult to discover. The subject is linked, if somewhat loosely, with the history referred to in my preceding paragraphs, for in 1901 Sir (then Mr.) William Glyn-Jones cited it in an address delivered in London (*C. & D.*, 1901.II. 723). It is as well for pharmacists to be clear about the provisions of the Act. The long-winded preamble at the expense of Tudor surgeons may have caused those worthies to hang their heads in dismay, but does not concern us. The Act provides that any of the King's subjects, having knowledge and experience of the nature or operation of herbs, roots and waters, by speculation or practice, may within any of the King's dominions use and minister in and to any outward sore, uncome wound, apostemations, outward swelling or disease, any herb or herbs, ointments, baths, pultes and emplasters in the maladies mentioned and similar ones. There is an addition not always remembered: "or drinks for the stone, strangury, or agues." The inclusion of these last three ailments is probably due to the custom of calling in surgeons, not physicians, to treat them. (The spelling of my quotations has been slightly modernised.) This old Act has a definite and limited scope. Persons who are entitled to act by virtue of it must be British subjects and must "use and minister" in British territory.

Xrayser

MARRIAGE

BROOKE—RIX.—At St. Stephens Church, West Bowling, Bradford, Yorks, on September 10, Harold N. Brooke, Ph.C., Tickhill Road, Doncaster, to Kathleen Rix, M.P.S., West Bowling, Bradford.

DEATHS

BLYTH.—On September 9, at 51 East Trinity Road, Edinburgh, Mr. John Blyth, aged eighty-five. Mr. Blyth qualified in 1888.

BUTLER.—On August 26, Mr. Ernest Arthur Butler, M.P.S., 26 Lancaster Road, Pendleton, Salford. Mr. Butler qualified in 1913.

MOIGNARD.—On September 5, Mr. Clifford Philip Moignard, M.P.S., Villa Effra, Mount Bingham, St. Helier, Jersey, aged forty-eight.

SALMON.—On August 22, Mr. Arthur Salmon, M.P.S., Chingford, Sleights, Yorks. Mr. Salmon qualified in 1895.

STEEL.—On August 21, Mr. George Augustus Steel, M.P.S., 9 Green Lanes, London, N.16. Mr. Steel qualified in 1900.

TAYLOR.—On August 18, Mr. Oswald Taylor, M.P.S., 297 Warbreck Drive, Bispham, Blackpool, aged sixty-three. Mr. Taylor was for many years in business at Castle Street, Edgeley, Stockport.

WILLS

MR. J. F. MASON, M.P.S., 4 Hazledene Road, Chiswick, London, W.4, left £550.

MR. WALTER ADAMS, 3 Woodside Road, Parkstone, Dorset, retired pharmacist, left £22,178 (£22,003 net).

MR. C. J. BLAY, M.P.S., 52 Stoke Green and 113 Raglan Street, Coventry, left £7,153 (£6,628 net).

MR. I. BEST, M.P.S., 16 The Fairway, Ruislip, and 10 Lucas Avenue, Rayners Lane, Harrow, Middlesex, left £753.

MR. J. C. CRANSTON, 29 Mere Weather, Karachi, Pakistan, manager of May & Baker (India), Ltd., Karachi, left £612.

MR. R. B. SCOTT, retired pharmacist, 3 Ashland Avenue, Wigan, left £5,961 (£5,920 net).

MR. F. J. MASTERMAN, M.P.S., Market Place, Market Weighton, Yorks, left £3,384 (£3,337 net).

MR. W. J. STOCKDALE, M.P.S., 14 Belgrave Terrace, Sowerby, Thirsk, Yorks, left £3,633 (£3,528 net).

MR. J. S. EMLYN, M.P.S., 2 Coop Avenue South, Liverpool, formerly Southampton, left £453.

MR. K. H. EMELEUS, M.P.S., 22 Hig Street, Battle Sussex, left £1,487 (£1,4 net).

MR. A. W. SUMMERFIELD, M.P.S., Canonbie Road, Forest Hill, Londo S.E.23, left £4,765 (£2,496 net).

MR. P. G. J. FRANKLIN, M.P.S., The Pha macy, 23 Sandown Road, Lake, Sandow Isle of Wight, left £1,515 (£1,465 net).

MR. A. O. FINDLAY, retired pharmaci 6 Severn Terrace, Newport, Mon, le £629 (£587 net).

MR. E. BROTHERTON, M.P.S., 48 Broa way Market, London Fields, E.8, le £11,469 (£6,946 net).

MR. R. W. WILLIAMS, M.P.S., 105 Ba ford Road, Speke, Liverpool, left £6 (£603 net).

MR. W. S. HURST, M.P.S., 26 Alexand Crescent, Ilkley, Yorks, left £1,6 (£1,560 net).

MR. H. COE, retired pharmacist, Bre don, Bloomfield Road, Bath, left £10,6 (£10,475 net).

MR. A. J. PHILLIPS, retired pharmaci Coniston, Hatch Lane, Windsor, le £21,744 (£21,695 net).

MR. G. W. WISE, M.P.S., 3 Louisa Te race, Exmouth, Devon, formerly of Ric mansworth, Herts, left £18,089 (£17,98 net).

MR. D. M. DURNO, retired pharmacis 122 Westbourne Grove, Westcliff-on-Se formerly of 46 Buckley Road, Londo N.W.6, left £1,270.

MR. J. BROWN, M.P.S., Tudor Lodg Bridge Road, Oulton Broad, Lowestof and 216 London Road, South Lowestof Suffolk, left £3,871 (£3,821 net).

PERSONALITIES

MR. DUNCAN C. L. FITZWILLIAMS ha been elected Master of the Society o Apothecaries of London.

MR. B. L. CASLEY, M.P.S. (West o England representative of C. R. Harke Stagg & Morgan, Ltd.), has returned t Exeter from hospital and will shortly b resuming his regular journeys.

DR. J. IDRIS JONES, principal scientifi officer at the Chemical Research Labora tory, Teddington, has been seconded for tour of duty in the British Commonwealt Scientific Office, Washington.

N.H.S. PAYMENTS TO CHEMISTS

HE following information (E.C.L.244) been sent from the Ministry of alth to Executive Councils and to the nt Pricing Committee for England, with re circulars for transmission to Local armaceutical Committees:

At the present time, the advance pay- nt made to a chemist each month is nputed with reference to his average al cost per prescription (including con- ner allowance) for January 1949. Fol- ving the reduction, as from September 1949, of the container allowance to 5d. per prescription, a modification in basis upon which the advance payment calculated will be necessary. Accord- gly, from the figures already determined "90 per cent. of the chemist's average al cost per prescription for January 49 rounded up or down to the nearest nny," the sum of one penny should be ducted. This figure (subject to a mini- um of 1s. 9d.) will, when multiplied by number of prescriptions shown on the ated form E.C.38, give the amount of advance payment (after rounding wn to the nearest £1 below) to be made the chemist in respect of prescriptions September, and monthly thereafter, til further notice is given on the bject.

yment for Oxygen, Fittings and Equipment.

The arrangements for the supply of oxy- n and oxygen equipment are being con- lered in consultation with representatives the medical and pharmaceutical profes- ns. Meantime, to enable the Pricing fice to certify monthly payment to cmists for the supply of oxygen and the e of fittings and equipment (instead of aining the prescription for pricing until equipment is returned from hiring), Central N.H.S. (Chemists-Contractors) mmittee have agreed that chemists shall tify the Council not only (a) after the tings have been on hire fourteen days required in paragraph 16 of Part I Drug Tariff for July 1949) but also the date of the final return to the emists of fittings on termination of the ring. It is essential that the Council ansmit this information immediately hether (a) or (b)) to the Pricing Office, hich will certify for payment monthly til they are advised by the Council of e date on which the hiring ceased.

Form E.C.47(b)

In order that, when a new contractor's name is entered by the Executive Council on Form E.C.47(b) the position of the entries may be made to correspond exactly with that of the entries which the Pricing Office has to make on Form E.C.47(a), the Council are asked to insert such entries at the end of the appropriate section, e.g., a new doctor's name should be added at the end of the section for doctors, a new chemist's name at the end of the section for chemists, etc. The Council should also inform the Pricing Office every month of the order of new entries and the number of lines allowed for each addition.

Prescribed Appliances

(1) *"Inhalers."* Certain proprietary appliances marketed as "inhalers" should generally be more correctly described as "atomisers." If the type is hand-operated (e.g., Brovon, Rybar, etc.), it may properly be prescribed on Form E.C.10 and dispensed for use with inhalants for which the type specified in the Drug Tariff may not be wholly suitable. It should be noted that the Collison type is gas operated, and may not be prescribed on Form E.C.10.

(2) *Insufflators.* The appliance known as an "Aerohaler" is, in fact, an insufflator, and as such may be ordered on E.C.10.

A PHARMACIST'S ANTHOLOGY

"APOTHECARIES' profit has become a by-word, denoting something uncommonly extravagant. This great apparent profit, however, is frequently no more than the reasonable wages of labour. The skill of an apothecary is a much nicer and more delicate matter than that of any artificer whatever; and the trust which is reposed in him is of much greater importance. He is the physician of the poor in all cases and of the rich when the distress or danger is not very great. His reward, therefore, ought to be suitable to his skill and his trust, and it arises generally from the price at which he sells his drugs. But the whole drugs which the best employed apothecary, in a large market town, will sell in a year may not perhaps cost him above thirty or forty pounds."

From "The Wealth of Nations" by Adam Smith.

TRADE NOTES

Bonus Offer.—F. W. Hampshire, Ltd., Sunnydale, Derby, announce details of their display bonus offer for Snowfire hand jelly.

Dispensing Sundries Card.—Details are given in their announcement in this issue by Macdonald & Son, Ltd., Hope Mills, Pollard Street, Manchester 4, of their dispensing sundries card.

Trade Exhibition.—From September 19 to 30 a London exhibition of the company's goods is being staged by United Chemists' Association, Ltd., at the Berners Hotel, Berners Street, London, W.1.

Cleansing Returned Medicine Bottles.—An economical method of sterilising used medicine bottles is given in the advertisement this week of Milton Antiseptic Ltd., 10-12 Brewery Road, London, N.7.

Supplies Again Available.—John H. Heron, Ltd., Hook Road Mills, Goole, Yorks, announce that their product Froment, the vitamin B_1 wheat germ product, is again available in limited supplies.

Collapsible Metal Tubes.—Universal Metal Products, Ltd., Salford 6, Lancs, are marketing a collapsible tube filling unit which fills, crimps and closes the tube. They are also makers of collapsible tubes.

Chewing Aspirin.—White Laboratories, Ltd., 4 The Park, Mitcham, Surrey, state that Aspergum flavoured chewing-gum aspirin is again available in 16-tablet packages and 36-tablet moisture-proof bottles.

Sole Distributors.—John Bell, Hill & Lucas, Ltd., Oxford Works, Worsley Bridge, London, S.E.26, are now sole distributors in Great Britain for the products of Cavendish Chemical Co. (New York), Ltd.

Surgical Dressings Prices. — A new price list of B.P.C. and N.H.S. surgical dressings, operative since August 29, is available to pharmacists, on request to Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

Composition Unchanged. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, state that no alteration has been made in the composition of the Methedrine brand inhaler, which is therefore still subject to purchase tax.

Waterproof Dressings.—A. DE ST. DALMAS & Co., LTD., Leicester, market a waterproof adhesive strapping, which is issued in 1 in. x 1 yd. spools in displa containers of twelve or twenty-four, and 8-yd. lengths and 2-in. and 3-in. width

Supplies of Strychnine.—Whiffen Sons, Ltd. (British Chemicals & Biolog cals, Ltd.), Fulham, London, S.W.6, a nounce they have been manufacturir strychnine for nearly ninety years. The claim to have been the first producers commercial quantities of this product.

Improved Delivery Service.—With th acquisition of new premises, J. H. Dale Son, Ltd., Broadway, Plaistow, Londo E.13, announce they are now able to pr vide an improved delivery service, partic lars of which are given in the announcement this week.

Buffer Tablets.—Edward Gurr, Ltd 108 Waterford Road, Walham Gree London, S.W.6, have put on the mark their Michrome brand buffer tablets, f the rapid and economical preparation buffer solutions. Details are available c application to Messrs Gurr.

Chamois Leathers.—For over twent five years specialists as chamois-leath dressers, the Woodacre Chamois Co., Da wen, Lancs, concentrate on leathers f cleaning and polishing. Much of the con pany's production goes overseas. A fu range of sizes is available, and the leathe are packed in attractively printed tran parent bags of excellent sales appearance.

Holiday Closing. — Edwards, Sons Partners, Ltd., announce that their Londo offices, 32 Shaftesbury Avenue, W.1, wi be closed from Friday, September 23, t Wednesday, October 5. The Manchest Offices (Cleveland Buildings, 94 Mark Street, Manchester, 1), will be open a usual during this period to which addre all correspondence, etc., should be ac dressed.

Bonus Offer Extended.—The Crook Laboratories, Ltd., Park Royal, Londo N.W.10, announce that the company bonus on Crooke's Lacto-calamine lotio (thirteen to doz. on orders for three doz and fourteen to doz. on orders for six do 4-oz. bottles) is being continued throgho the winter season, during which the pr duct will be actively propagated to mem bers of the medical profession.

Sponges from Viscose.—The sole dis tributors in the United Kingdom an British Empire of Enka viscose sponges,

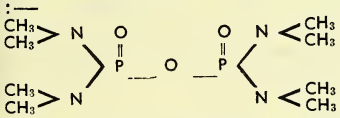
w range for domestic and industrial purses, are Macwill & Co., Ltd., Kingston-Thames. Available in oval and rectanlar shapes, Enka sponges absorb about rty times their weight of water. They e presented in transparent wrappers, and owcards are supplied with trial orders.

Baby Needs.—Lewis Woolf, Ltd., 144 akfield Road, Selly Oak, Birmingham, , manufacture their Griptight baby needs self-contained factories using mainly ant and equipment constructed in the mpany's engineering section. Messrs. oolf process their own raw material ainst laboratory checks and tests.

Liable to Purchase Tax.—H.M. Customs and Excise have advised Parke, Davis Co., Staines Road, Hounslow, that nylin Expectorant is not eligible for exption from Purchase Tax under the Dispensing Pack" procedure (Purchase ax No. 1 Order, 1949, Notice No. 78N). n and from September 13 the 16-oz. and -oz. packages, which were previously tax e "Dispensing packs," will be chargeable the "B" rate of purchase tax.

Display Competition Prizewinners.—ntex Dyes, Ltd., 245 Oxford Street, ondon, W.1, state that the first three izewinners in a window display comtition recently organised by the comny were: 1 (£50), David's Stores, 331 reenford Road, Middlesex; 2 (£30), artford Industrial Co-operative Society, d., Spital Street, Dartford; 3 (£20), F. . H. Morrell, 33 Bathwick Street, Bath, merset.

New Systemic Insecticide.—Pest Conol, Ltd., Harston, Cambs, have synthed a new systemic insecticide, selective ainst aphides. The compound bis-diethyl amino phosphorous anhydride is own as Pestox III, and has the formula:—



When pure, the compound is a colourless scous liquid, having a slight characteristic lour, and a taste similar to black pepper. is miscible with water in all proportions nd is soluble in most organic solvents. lants that tolerate the compound well inude Brussels sprouts, sugar beet and hops.

Press Advertising.—To link up with an dvertising campaign that commences with a full-page, full-colour advertisement in "Picture Post," chemists are recommended by Roger & Gallet (London), Ltd., Lechmere Road, London, N.W.2, to write immediately for stocks of the company's perfumery and cosmetic specialities.

Display Cut-out. — Pharmaceutical Specialities (May & Baker) Ltd., Dagenham, announce that a cut-out showcard for the display of Propamidine cream is available to chemists on request to the company. The cream presents Propamidine anti-bacterial agent in a convenient form for the first-aid treatment of burns, cuts and abrasions.

The Proprietary Articles Trade Association

Additions to the Protected List (Part 1).—*Benger's Ltd.* (*Distributors:—British Chemicals & Biologicals, Ltd.*). Ferrivenin now exempt from purchase tax. 5 x 5 cc. ampoules, 82s. doz., retail 10s. 3d. 10 x 5 cc., 152s. doz., retail 19s. *The Curacho Co.* Curacho veterinary embrocation, new 3-oz. size, 12s. doz., tax 33⅓ per cent., i.r.p. 1s. 8d. *Wright, Layman & Umney, Ltd.* Blacfrutex, 8s. doz., tax 33⅓ per cent., i.r.p. 1s. 5d. Garlixa, 4 oz., 7s. doz., tax 33⅓ per cent., i.r.p. 1s. 4d., 8 oz., 10s. doz., tax 33⅓ per cent., i.r.p. 2s.

POISONS LAW, 1935-49

7. Dangerous Drugs Difficulties

OSTENSIBLY there have been only minor modifications made in the Dangerous Drugs Acts and Regulations since 1935, but these have an importance far beyond other poisons provisions owing to the severity with which offences are penalised. The new poisons law coming into operation on May 1, 1936, necessitated corresponding changes in the Dangerous Drugs (Consolidation) Regulations, 1928 and these were embodied in the Dangerous Drugs Regulations, 1937 These are still in force, subject to amendments made in 1948. A real difficulty in "D.D." law is to ascertain the precise effect of statutory changes, especially in relation to the ever-growing and continually changing list of drugs (and preparations) to which Part III of the Dangerous Drugs Act, 1920, applies.

As previously explained (*C. & D.*, August 13, pp. 221-3) these originate in international agreements which modify and extend the law relating to Dangerous Drugs without reference to conditions already in existence in a particular country such as the United Kingdom. Since the principal object is to prevent the abuse of habit-forming drugs by suppressing illicit traffic, the conventions are most concerned with the subterfuges of the dope smuggler or peddler, consequently the changes by Conventions concern the attempts to exploit new narcotics or circumvent the law by ex S.I. dilutions or by chemical conversion.

Inert Diluents

Thus there are excellent reasons for changes which are not obvious to chemists concerned in meeting legitimate medical needs. For example the application of "D.D." to any dilution of morphine or cocaine "with an inert substance, whether liquid or solid," originated in the obscurities of the 1931 Geneva convention. It is a successor to the removal in 1925 of the exemption limit of 0.1% for heroin to deprive the dope fiend of recourse to ex D.D. dilutions. The Stirling case (*C. & D.*, 1944, II, 602; and 1945, I, 56) was intended to call somewhat belated attention to the inert diluent requirement, but the plea of guilty and dismissal under the Probation of Offenders Act confused rather than clarified the issue. Repercussion is still evident in 1949, by the claiming of special "D.D.A." fees under the National Health Service for Ex. S.1 solutions morphine hydrochloride in chlorofo water or peppermint water (which *C. & D.*, Poisons Guide since 1945 stressed are "Ex D.D."). Counteracti the supply of cannabis to the marihua addict has confined the position of canna preparations for internal use.

Narcotics List

Dispensing chemists are expected to k *au fait* with requirements in respect narcotic preparations seldom or never u in medicine. In general these comp the later additions to the list of Danger Drugs. Thus ecgognine, with exempt limit removed in 1937 (S.R. & O., 19 No. 533), is an example of a convers

TABLE I

Dicodide, Dilaudid and Eucodal Statistics (U.

	1936	1947	1948
Manufacture			
Dicodide	Nil	14	5
Dilaudid	Nil	Nil	1
Eucodal	Nil	23	6
Thebaine	35	259	113
(Converted)	(Nil)	(132)	(54)

drug (to cocaine). Benzoylmorphine a the esters of morphine (other than diacet morphine) are drugs which no person this country is authorised to possess supply. Drugs for which consumption negligible or nil are acetyldihydrocode (Acedicone), benyzlmorphine (Peronin) a morphine-N-oxide (Genomorphine). I hydrocodeine (Dicodide), dihydromorphi (Dilaudide) and dihydrohydroxycodeino

TABLE II

Amidone and Pethidine Statistics (U.K.).

	1947	1948
Pethidine		
Manufactured	1,155	1,155
Disposed of by makers	1,141	1,141
Exported	388	472
Consumed at home	—	418
Amidone		
Manufactured	—	110
Disposed of by makers	—	105
Exported	—	36
Consumed at home	—	22

(Eucodal) were imported from Germa prior to 1939. These are now made Great Britain to meet the small but ins tent demands for home use and expo Thebaine is mainly used for conversi

o dicodide and eucodal. Table I gives oduction figures in kilos for these drugs. Table II includes data in kilos for synetic drugs not yet covered by convention, t made "D.D." by anticipation in this ntry.

An experimental licence has been granted for methyldihydromorphinone (Metopon) which has not as yet been manufactured in Great Britain. In the United States supply of this drug is restricted to use in chronic cancer cases on condition that detailed records are submitted to the National Research Council.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Council Meeting

MEETING of the Council of the Pharceutical Society of Northern Ireland s held in Belfast on September 9, the sident (Mr. Henry H. Cowzer) in the air. There were also present Messrs. R. W. Shinner (vice-president), H. F. ore (treasurer), S. E. Campbell, H. P. ssin, James Irwin, W. H. Boyd, Prosor E. B. C. Mayrs, M.D., Dr. H. D. azley, W. P. Ewart, H. W. Gamble, Abernethy, John McGregor, Walter C. te and Mr. William Gorman (secretary). ologies for absence were received from ssrs. F. R. Moore, J.P., and James Dowell.

THE PRESIDENT referred with regret to death during the summer of Mr. Wilm J. Hardy, J.P., Belfast, president of Society in 1928-29.

THE SECRETARY reported that there had n an amendment to the Poisons Reguions in S.R. and O. (Northern Ireland) . 105, and it was decided that the mems should be informed of the provisions. ese include the definition as in Great tain of "repeat" prescriptions, which to be dispensed not more than three es and not more often than once in ee days.

On the minutes of the Education Comttee, which were passed, it was recomnded that Larne Technical School uld be recognised for teaching in the jects for the Society's Part I Qualifyg examination. The next examinations l be held in the week commencing Dember 12.

rtificates of Apprenticeship

Certificates of apprenticeship were nted to the following:—J. F. Mullan, Wilson, Miss M. M. Kells, I. D. McKee, D. Abernethy, W. R. Meighan, P. J. ssidy, J. J. Beattie, M. H. Bailey, E. Richey, Miss M. G. Heath, Miss O. J. ackintosh, and Miss M. A. Best, all of lfast, A. J. McClay, W. J. Gamble (Cookstown), J. S. Dundee (Whiteabbey), W. A. Gracey (Lurgan), L. G. Torbitt (Larne), E. O'Reilly (Dromore), P. C. McGarrity (Clogher), Miss L. M. McCann (Londonderry), Miss M. T. Lusted (Strabane), R. J. McBride (Jordanstown), G. T. Irwin (Dunmurry), K. Lyle (Ballyclare), Miss B. J. Miller (Dunmurry), and E. Webb (Bangor).

The minutes of the Finance Committee, which were passed, recommended the investment of £1,000 in 3 per cent. Savings Bonds. The treasurer's financial statement for the year was adopted and ordered to be circulated.

Examiners' Reports

The Council considered the reports of the examiners on the June examinations. Dr. K. Bullock said that in chemistry, apart from the more advanced nature of the work, the standard attained in the Part II examination was higher than that attained in Part I. A good appreciation was shown of the chemistry underlying manufacturing processes, and the standard attained in the practical work was satisfactory, no candidates failing who had not already failed in theory.

Dr. Bullock said the general standard of candidates passing the Part I chemistry examination was satisfactory, a proportion of excellent papers being received, but some of the practical work was weak.

Reporting on the Part II pharmaceutics, pharmacognosy and forensic pharmacy, Mr. G. Perrins remarked that in pharmacognosy the written questions were answered very well but in the practical part a few candidates fell well below the pass standard. These failed to recognise simple drugs, and their descriptive work was weak. In pharmaceutics written answers generally were of a high standard and there were some excellent results on the practical side. Forensic pharmacy showed few weaknesses, and doses and prescription-reading maintained the good stan-

dard reached in former examinations. "In general candidates showed good results and there has been no falling away during the past two years," Mr. Perrins wrote: "pharmacy in Northern Ireland has reached a very good level." He added that it would be desirable to bring all candidates under the 1948 British Pharmacopœia as soon as possible, as there are now only seven previously referred candidates who have to take the whole examination again, and five of these would not be helped by remaining under the old regulations.

Dr. J. T. Shepherd said the usual high standard in physiology was maintained.

In physics, Dr. R. H. Sloane said sixty-one candidates presented themselves; only eighteen obtained a clear pass in both theory and practical, while five passed the practical test comfortably but fell slightly below the pass mark in theory. No less than fourteen candidates obtained less than 20 per cent. on the theoretical paper, and speaking generally the answering on this paper was not good.

In biology and botany, Miss M. Clapham said a slightly higher average was reached in the theoretical paper than in recent examinations, and in biology and zoology Mr. G. Williams said fifty-one took the examination and thirty failed to secure a pass mark. An analysis showed too high a proportion of candidates just above and below the pass mark of 50 per cent.

Moving that the reports be adopted, Mr. McGregor said that on the whole they gave reason for congratulation and reflected credit on the type of student entering pharmacy. Mr. Gamble seconded and the motion was passed. Mr. McGregor also proposed that a book award should be made to students in the Part I examination with an average of 80 per cent. in answering. Mr. Crossin seconded, and the proposal was adopted, it being further decided that a book should be awarded to Miss Brigid P. Grant, Buncrana, co. Donegal, who had been specially commended by the examiners in physics and biology-zoology. A specimen of the gilt medal to replace the gold medal for Part II was on view.

Notice was given that the lecture by Dr. A. L. Bacharach at a joint meeting of the Society and the Royal Institute of Chemistry (Belfast and District section) will be given on October 20, instead of October 18. The meeeting will be in the Society's rooms.

Council Election

In accordance with statute four mem bers of the Council of the Pharmaceutic Society of Northern Ireland retire th month. They are Messrs. P. R. V Shinner (vice-president of the Society), Abernethy (a past-president), W. H. Boy and H. W. Gamble, all of whom are u derstood to be offering themselves for r election. Nominations close on Septemb 19, and if a ballot is necessary the resu will be declared at the annual meeting the Society on October 3. In this ever Mr. H. F. Moore and Mr. John McGreg have been appointed to act as scrutineer

N.H.S. REPORTS

The following statistics are taken fro recent annual reports of Pharmaceutic Committees or Executive Councils.

Middlesex	July 1948-Jan. 1949	July 1947-Jan. 1948
Prescriptions ...	5,498,789	2,130,403
Cost of ingredients and fees	£713,263	£195,233
Cost of containers...	£57,249	—
Average prescription cost	31.1d.	21.9d.
Persons on lists ...	2,222,722	1,106,475
Cost per head ...	83.0d.	72.3d.

Cornwall	July-Dec. 1948
Prescriptions	521,129
Persons on lists	230,929
Pharmacies	119
Average prescription cost... ...	33.2d.

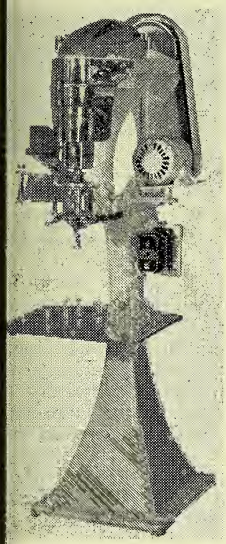
Sheffield	July 1948-Feb. 1949
Prescriptions	1,275,260
Cost of ingredients and fees ...	£137,856
Cost of containers (six months) ...	£13,267
Average prescription cost	2s. 1.8d.
Rota service fees	£1,868
Persons on lists	508,418

Wigan	July 1947-June 1948
Prescriptions	674,753
Payments made	£73,363
Rota service fees...	£229
Pharmacies	25

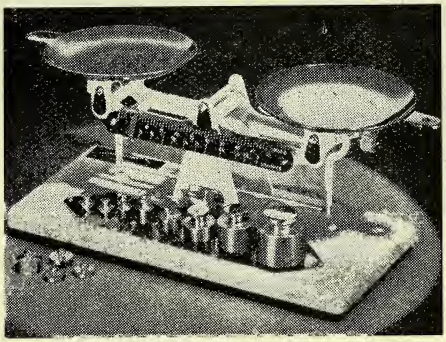
Tobacco-free Cigarettes.—According to the "Manchester Guardian," Dr. G. A. Harrison, chemical pathologist to St. Batholomew's Hospital, London, smokes each day thirty cigarettes made from a mixture of daucus (carrot leaves), typha (bulrush fluff), and *Mentha aquatica* (water-mint) leaves, with an addition of one part of rhubarb leaf for "binding" purposes.

PLANT AND MACHINERY

Improved Powder Filling Machine.—he powder filling machine shown, manu-ıctured by the Alite Patent Machine Co., Ltd., has now been improved so that hygroscopic materials such as sodium and potassium penicillin and streptomycin can be handled in quantities of 30 mgm. up to almost 3 gm. with a maximum tolerance of ± ½ per cent. The machine is specialised for filling powders into ampoules, capsules and other similar small containers. Careful consideration has been given in the construction to assure the utmost protection against contamination by ust particles or by bacteria, and the effects f atmospheric humidity. Details available n application.



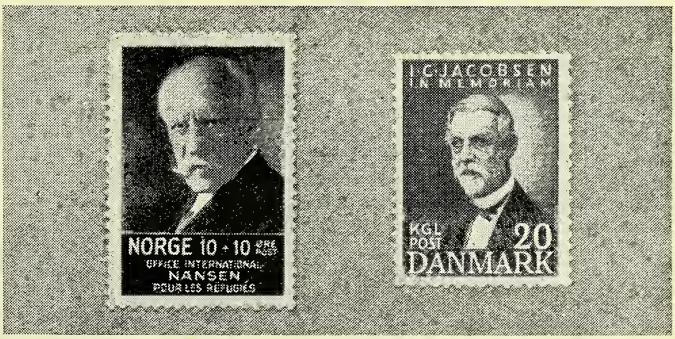
Chemical Scales and Weights.—The scales illustrated have been designed by Kodak, Ltd., Wealdstone, Harrow, Middlesex, to give a degree of accuracy sufficient for photographic work. They are finished

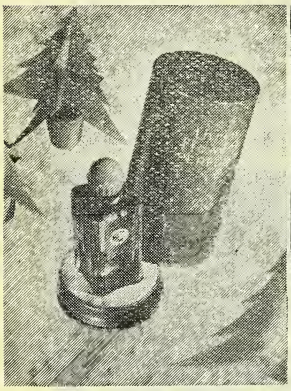


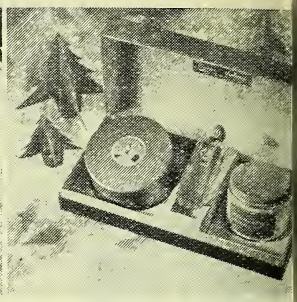
in cream enamel and chromium, with black plastic pans. Sets of ounce and grain weights are provided; a set of gram weights is available as an accessory. A graduated scale with sliding rider weight provides for small measurements from 0-50 gr. and 0-3 gm. There are two knurled adjusting knobs that allow the scales to be set in exact balance. The overall measurements are:—Height, 4½ in.; width, 4 in.; length, 5 in.

'ERSONALITIES OF SCIENCE ON POSTAGE STAMPS—9

RIDTJOF NANSEN 1861-1930), a bio-ogist born at Oslo, vas honoured on Norwegian series of tamps in 1935 and 940 rather for his umanitarian work n behalf of inter-ational refugees. He was, of course, lso world re-nowned as an Arc-ic explorer. The 10-ore red-brown tamp (right) issued y Denmark on November 10, 1947, bears portrait of I. C. Jacobsen (1811-87). He is enowned for his "Carberg's Foundation" or the establishment of Denmark's historical museum in Frederiksborg Castle. for the promotion of scientific research, and he also established the New Botanical Gardens, Copenhagen.





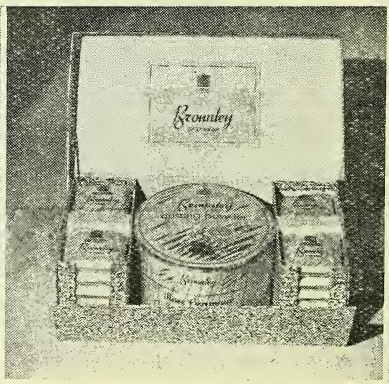


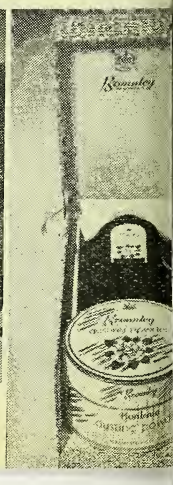
CHRISTMAS GIFT PACK

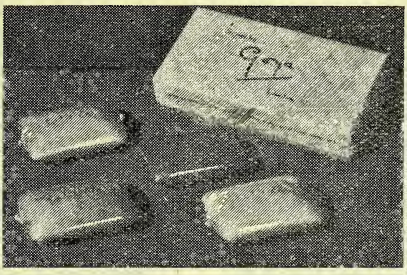
SPECIAL Christmas packs available this year from RICHARD HUDNUT, LTD., Power Road, London, W.4, include Three Flowers dusting powder and perfume (as illustrated above); Christmas carton of Three Flowers face powder; coffret containing large box of Three Flowers face powder, bottle of perfume and jar of foundation cream (as illustrated); a Christmas sleeve for the Richard Hudnut home permanent wave and Taperette; and special Christmas Box for the Richard Hudnut hair beauty trio (enriched creme shampoo, creme rinse and dandruff treatment) also as illustrated. No extra charge is made for the special packs. The hair preparations Christmas packs are designed as a series and are most colourful.

Gift Packs of H. BRONNLEY & CO., LTD., Devonshire Works, Duke's Avenue, London, W.4, are four in number. Three are illustrated below. They are the No. 33 coffret, containing tablet of beauty ba soap and small size bottle beauty ba essence, and available in gardenia, Engli fern, rose geranium and mignonette pe fumes; the No. 35 coffret, containing si teen bath sachets and dusting powder match, this is available in English fer rose geranium and mignonette perfume and the No. 34 coffret containing a fla of beauty bath crystals and box of du ing powder (gardenia, English fern, ro geranium and mignonette perfumes). T fourth coffret (No. 31) is a novel bathroo cabinet containing dusting powder, tv tablets beauty bath soap and twelve ba sachets (in English fern, rose geraniu and mignonette perfumes).

Christmas 1949 gifts by GOYA LTD., 1 New Bond Street, London, W.1, inclu Goya's Christmas cracker each containi two handbag phials of Goya perfume in o of three different assortments, each pack







a different colour wrapping. The three arieties are:—Twin-perfume cracker, a andbag phial each of Decision and Vibra-on (Decision for the daytime and Vibra-on for after-dark), in a colour scheme cream, gold and magenta; Party acker, two-party perfumes (Gardenia nd Great Expectations) in handbag phials colour scheme of cream, gold and pale reen; and the town-and-country cracker, vo contrasting perfumes (a handbag hial each of No. 5 and Goya Heather) a colour scheme of cream, gold and ue.

The Goya collection is a compete "per-ime wardrobe" containing four assorted oya perfumes in handbag phials.

The Goya "travel quartet" is again vailable. It contains four assorted travel-ze bottles of Goya perfumes.

Goya bath salts, packed in "bubble" rs, are also available.

Goya's toilet soaps (centre, above) are available singly or in boxes of three in gardenia, rose geranium, blue moss and yellow gorse perfumes. All gifts so far mentioned are all in stock now. The following will not be available for delivery until after November 1, and may then be in limited supply. Six assorted "bath blossoms" are packed in a gay box (above, right). The six fragrances are: Gardenia, Goya heather, Decision, Vibration, lavender and Cologne.

Finally there is Goya's Cologne and lavender gift, two lavender water and eau de Cologne in box with four "bath blossoms" (two in each fragrance). All Goya perfumes, in a range of sizes, and Goya lipsticks, including "thick and thin" model will, of course, be available for the Christmas trade.

NEW BOOKS

P. J. Poisons Guide.—Fifth edition. ½ x 5¼ in. Pp. 46. 3s. 6d. (postage two-ence). Pharmaceutical Press, 17 Bloms-ury Square, London, W.C.2. The sys-m of classification places all poisons four classes, outlining the sales restric-ons on each. An extended poisons list ves the names of many poisonous sub-ances with an indication of their place the system of classification.

Aids to Forensic Pharmacy.—Mary E. olton, B.Pharm., Ph.C. Fourth edition. ½ x 4 in. Pp: 232. 6s. **Aids to Physics.** —F. J. Jackson, B.Sc., Ph.C. 6½ x 4 in. p. 235 with ninety-four diagrams. 6s. aillère, Tindall & Cox. The "Aids" ries is well known. Miss Bolton, while earing in mind the aims of the author the first edition (the late Mr. V. A. Lupton), has found it neces-ry to make numerous additions and terations. The Pharmacy, Dangerous rugs and Therapeutics Substances Acts are now dealt with in the first part. The Penicillin Act, Streptomycin Regulations and Radioactive Substances Act are added to the legislation covered. Mr. Jackson's book, a newcomer to the series, is directed primarily to students preparing for the Intermediate examination of the Pharmaceutical Society. Illustrative numerical examples are worked out in full.

Analar Standards for Laboratory Chemicals (Fourth edition).—The British Drug Houses, Ltd., and Hopkin & Williams, Ltd. 8½ in. x 5½ in. Pp. 302. 10s. 6d. Previous specifications have been critically reviewed. Many have been revised, and a number of old tests have been replaced by modern techniques. Specifications for fifty-eight new chemicals are included, and polarographic methods are described for determining certain impurities (e.g. nickel in cobalt salts, lead in copper). An extension of this method in the future is forecast in the preface.

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VOL. CLII SEPTEMBER 17, 1949 No. 3630

Sciences in Pharmacy

PHARMACEUTICAL research, in its various aspects, is becoming increasingly important in the ranks of the applied sciences, as evidenced, for example, by the large number of new types of preparations that have been offered to medicine during the past few years, and, perhaps even more significantly, by the apparently increasing rate at which new preparations are being discovered. One discovery often gives rise quickly to others (as exemplified by the sulphonamides, antibiotics, antihistamine drugs, etc.) as though pharmaceutical research, in the sense described by Dr. Evers in his second address from the chair to the British Pharmaceutical Conference (see p. 385), were governed by a sort of chain reaction.

Dr. Evers's address will be welcomed, therefore, as a lucid and comprehensive review of pharmaceutical research as seen in particular from the aspect of the industry—where, as he points out, the greater part of that research is conducted. He correctly stressed, as others have done, that pharmacy is not itself a science, but an art that makes use of many sciences.

Organic Research

In at least one field of pharmaceutical research the motive force is the ability of the organic chemist to produce compounds of pharmacological importance, with the help of the pharmacologist, who acts as navigator, pointing the way. Knowledge on the relationship between chemical constitution and physiological action is still far from complete, and, as the chairman stated, the element of luck has not been eliminated.

The field of organic chemistry in pharmaceutical research must not be allowed to develop to the exclusion of other fields, nor must the potential importance to medicine of undiscovered natural principles or of undiscovered uses of known natural products be overlooked. The importance of natural sources of drugs has been most recently emphasised, perhaps, by the work of Kendall and his colleagues on Compound E—a substance that may be synthesised from naturally occuring compounds previously discovered during pharmaceutical work in other fields (*C. & D.*, September 10, p. 338).

An Organisational Need

On the organisational side of pharmaceutical research little progress has been made towards the institution of a committee of distinguished workers concerned with the co-ordination of pharmaceutical research. It may be assumed that Dr. Evers's underlining of the need for such an organisation will stimulate endeavours being made in that direction. Linked perhaps with the organisation of research is the task of checking, perhaps on a world-wide scale, any tendency towards the production of a multiplicity of new drugs (each drug differing to avoid infringing previous patents but not necessarily showing special therapeutic advantages), with resulting confusion to doctor and pharmacist.

Applied research cannot be conducted without the right personnel; and Dr. Evers's address will be remembered, in addition to other reasons, for his character-sketch of a good research worker, giving a formidable list of requirements needed of him. Notable among these was the need to accept "much of his reward" in satisfaction with work well done. Recognition of that work by colleagues competent to judge it may or may not be followed by any pecuniary reward or public honour; but the work itself will become a part of the heritage of science.

The Carb.-Bicarb. Dilemma

Not surprisingly, dispensing chemists are perturbed at the difficulty of reconciling the exclusion of ammonium carbonate from the British Pharmacopœia, 1948, with the requirements of the National Formulary, 1949 (in which ammon. carb. reappears in formulas where its predecessor, the National (War) Formulary, prescribed ammon. bicarb.). The 1948 B.P. deletes the 1932 monograph for ammonii carbonas and, under ammonii bicarbonas, categorically states that "when Ammonii Carbonas or Ammonium Carbonate is prescribed, Ammonii Bicarbonas shall be dispensed." The dilemma of different directions and standards only came to be fully appreciated when the scheme of testing medicines supplied under the National Health Service came into operation recently.

The two compounds differ in ammonia content and are thus not interchangeable analytically. The lower ammonia content means that the use of ammonium bicarbonate in place of an equal quantity of ammonium carbonate involves a deficiency of ammonia. It has to be remembered, of course, that the instability of the translucent blocks of ammonium carbonate (which lose ammonia on exposure to air with slow conversion to powdery bicarbonate) results in a deficiency proportional to the extent of decomposition. The B.P. direction provides legal cover to the pharmacist in substituting bicarbonate for carbonate because compliance with B.P. standards is accepted as an adequate defence under the Food and Drugs (Adulteration) Act, 1928 (though the Act itself does not set out any standards for drugs). It should be noted, however, that the Pharmacopœia cannot alienate the right of the prescriber to over-ride such direction if it is contrary to his intention. The specification of ammonium carbonate, B.P., 1932, in the National Formulary avoids the application of the B.P., 1948, notice. Moreover, the prescriber orders the mixture by title and not by prescribing the ingredients individually.

Accuracy in dispensing is best attained by adding the ammonium carbonate as a solution made by dissolving the hard tran lucent (uneffloresced) pieces of ammoniu carbonate in distilled water. The use a 1 in 10 solution (48 gr. to 1 fl. oz.) facil tates accuracy in measurement and avoi the awkward calculation necessary with th usual 1 in 8 strength. Dispensing shoul of course, be extemporaneous or—if stoc mixtures must be used—the ammoniu carbonate added separately at the time dispensing.

Official Substitution

Dispensing prescriptions as written is prime principle of pharmaceutical ethic and the pharmacopœial contravention that principle appears to be action in exces of the powers of the General Medica Council under the appropriate section the Act (see below). The origin of officia substitution can be traced back to 193 when an international agreement wa reached on unifying pharmacopœial formu las of potent drugs, including a recom mendation "that no potent drug shall b prepared in the form of a medicinal wine." The wines of the British Pharmacopœia 1914, were in consequence omitted fro the 1932 B.P. Pharmacists were prepare to dispense "vin. ipecac." according to pre scription but the General Medical Counci issued an addendum slip instructing tha "when Vinum Ipecacuanhæ or Ipecac uanha Wine is prescribed or demanded Tinctura Ipecacuanhæ shall be dispensed or supplied." Unquestioning acceptanc of this dictum was reflected in the B.P.C. version, 1934, which reads "must" be dispensed or supplied. The actual authority of the General Medical Council, as laid down in Section 54 of the Medical Act, 1858 is as follows:—

> The General Council shall cause to be published under their direction a book containing a list of medicines and compounds, and the manner of preparing them, together with the true weights and measures by which they are to be prepared and mixed, and containing such other matters and things relating thereto as the General Council shall think fit, to be called "The British Pharmacopœia" and the General Council shall cause to be altered, amended and republished such pharmacopœia as often as they shall deem necessary.

The war led to various Statutory Orders permitting (but not requiring) the sub-

titution (unless the prescriber should direct otherwise) of scarce substances or drugs in short supply. The fact that even war-time conditions were not allowed to over-rule prescribers' intentions should suggest to the authorities that replacement or substitution of a substance prescribed regularly in medicine is neither desirable nor practicable. In particular it contravenes the tacit agreement between physician and pharmacist not to make any modification to a medicine without consulting the prescriber.

To sum up, ammonium carbonate must be used in compounding Formulary preparations, and ammonium bicarbonate ordinarily when the prescriber writes "ammon. carb." on a prescription, unless the prescriber makes it clear that his intention is that the bicarbonate should not be used. Of course, there is no alternative if ammon. carb., B.P., 1932, is prescribed by the physician.

Distributive Workers and Price Maintenance

Our attention has been drawn to an article entitled "Price Maintenance—Its Importance to the Distributive Worker" written by Francis Hunt and published in "New Dawn," the organ of the Union of Shop, Distributive and Allied Workers. In it the writer puts forward most cogently arguments that deserve a wider readership than is presumably provided by the trade union journal itself.

"U.S.D.A.W. members may well begin to wonder," he writes, "what sort of cloud-cuckoo land some of our leaders are living in to suppose that, having methodically planned the production of goods as far as the factory-packing bench, it should then be desirable to arrange for them to reach the customer via a network of unplanned and overlapping wholesalers and retailers which, instead of being rationalised, is seemingly to be encouraged to become even more chaotic." That is the argument, in a nutshell, against abolishing the system perfected by the Proprietary Articles Trade Association, which has done so much to "rationalise" retailing. The writer continues in the following words:—

"The gravamen of the case against price maintenance has always been (a) that it encouraged the inefficient retailer by fixing profit margins sufficiently high to allow him to exist; (b) that such fixed margins encouraged 'dabblers' to sell lines so protected, which in the ordinary way they would not do, so causing wastage of manpower and materials; (c) that it prevented the more efficient retailer from passing on the benefit of his prices; and (d) that it discriminated against the co-operative movement." There may be a basis for some of these assertions, though "so far as the co-operative societies are concerned, the exclusion of particular lines from those on which dividend is permitted only means in actual practice that the profit on them is transferred to the general sum allocated for dividend; it still gets distributed to members in the form of a higher rate per £1 on the other goods purchased."

Effect on Distribution Mechanism

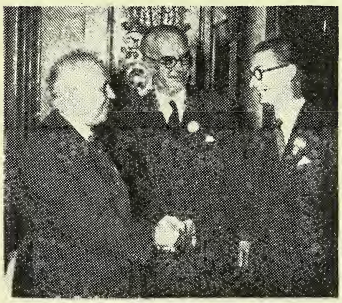
What is being overlooked is the effect on the mechanism of distribution of banning price-maintenance schemes. "Without hesitation I would say that such a move from the workers' viewpoint will be nothing less than disastrous. For many years yet it is certain that the bulk of distributive workers outside the co-operative societies will be working for small or medium-sized concerns. If we open the way to a price-cutting war . . . it will be the small businesses that will primarily suffer, and with them their employees' conditions . . . It will certainly not be possible to improve on . . . wages in an atmosphere of uncertainty such as would be resultant upon unstabilised selling prices."

Everybody will agree that the system of distribution should be as economical as possible, but "this we can do without interfering with price-maintenance by examining the profit margins and reducing them if considered necessary." That is a common-sense argument that will be echoed by every adherent to the P.A.T.A. Is it too much to hope that the President of the Board of Trade will come equally to appreciate its force? We trust that the article has not escaped his notice.

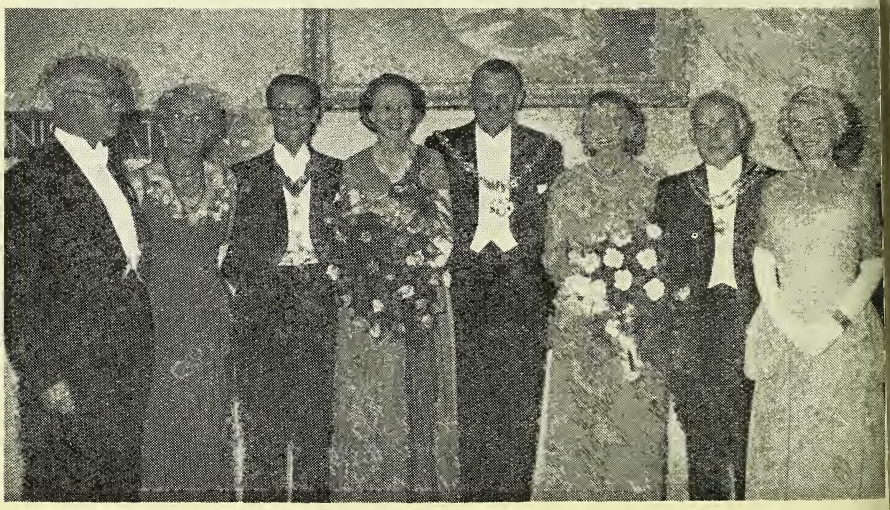
French Resin Industry

A REPORT from Paris just to hand states that one quarter of France's resin industry has ben lost in the forest fire disaster which has razed 375,000 acres of cultivated maritime pine woods in the past six weeks. Three quarters of the forest's four million cubic metres of trunkwood has been burnt. One result of the disaster may be more dollar expenditure for Britain. French exports of resin, timber, turpentine, paints, disinfectants and linoleum, taken mainly by Britain, will now cease, and Britain may have to buy her requirements from the United States or Canada. The fires coincided with the end of the German "repatriation" supplies of wood (1 million cu. metres since 1946) and tl consequent rebirth of Germany as a cor petitor in forestry. Previously, Gascony pr duced one million hectolitres of resin ea year, of which 200,000 became turpenti and the rest dry products, such as medic ments, paints, disinfectants and linoleu Gascony exported 500,000 kilos of turpe tine and 29 million kilos of dry produc and Britain was the only buyer. With tl very substantial drop in production in tl French industry exports for sometime come will cease and Britain will probab have no alternative but to buy her nee from the United States or Canada.

CONFERENCE PICTURES



GROUP AT CIVIC RECEPTION AT THE CASIN BLACKPOOL. *(L. to R.): Dr. Norman Evers an Mrs. Evers, Mr. Dawson Cook and Mrs. Coo Mayor of Blackpool (Councillor A. Salisbury), Th Mayoress (Mrs. P. Yardley), Mr. H. Clement Sha and Mrs. Shaw. (Left): Mr. H. Clement Sha (president, Pharmaceutical Society of Great Britai and Dr. Norman Evers (Conference Chairman congratulating Mr. J. L. Dawson Cook (chairma Blackpool Conference Committee).*



BRITISH Pharmaceutical Conference BLACKPOOL 1949

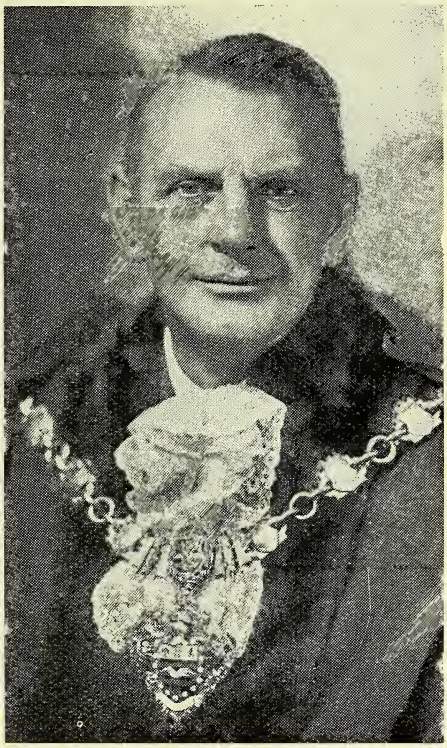
Informal Welcome and Civic Reception

BLACKPOOL GREETS THE CONFERENCE

LACKPOOL'S hospitality began with a cup f tea, very welcome alike to train arrivals ho had to register hurriedly to get to e Winter Garden n time for the open- g session and to ose wiser Confer- nce members who ad come up North day or two earlier y rail or road. rom the Baronial Hall members pro- eeded refreshed to e adjoining Span- h Hall for the offi- ial opening cere- ony. The Northern reland contingent onsisted of seven- een members and ncluded the secre- ary (Mr. W. Gor- nan), ex-president IcGregor and everal members of e P.S.N.I. Council.

Opening Session

Members of the Conference were in heir places in the panish Hall of the Vinter Gardens, Blackpool, in good ime for the arrival f Conference offi- ers and local digni- aries in the follow- ng order: Confer- nce secretaries Messrs. H. Treves Brown and H. G. Rolfe), local chairman Mr. J. L. Dawson Cook), members of the Executive (Mr. H. Humphreys Jones, Mr. A.G. Fishburn), Dr. T. E. Wallis, Mr. P. A. Brady (president, Pharmaceutical Society of Ireland), Dr. H. Davis, Dr. C. H. Hamp- hire, Mr. A. D. Powell, Mr. C. W. Mac- arlane, Mr. B. A. Bull, Mr. H. Deane, Professor H. Brindle, Mr. J. F. McNeal, Mr. G. R. Boyes, Miss M. A. Burr, Mr. P. Varley, Mr. H. H. Cowzer (president, pharmaceutical Society of Northern Ireland), Mr. F. J. Carter, the Conference chairman (Dr. Norman Evers), the Mayor of Blackpool (Mr. Alfred Salisbury, J.P.), the Mayoress (Mrs. P. Yardley), and Mr. H. Clement Shaw (president of the Pharmaceutical Society), who occupied the chair. THE PRESIDENT gave a special welcome to visitors from overseas, including those from Ireland, Northern Ireland, France, Turkey, Java and Pakistan.



The Mayor of Blackpool (Alderman Alfred Salisbury, J.P.)

Foreign visitors included Lieutenant-Colonel A. H. Shaikh from Pakistan, Dr. and Mrs. F. Said from Egypt, and a party from France, present as guests of the Scottish Department, in return for hospitality generously extended to Dr. S. McCall and Mr. Drummond, Falkirk, when they attended the conference at Quimper, Brittany, in May of the Confédération Pharmaceutique de l'Ouest. The French party comprised M. Albert Poste (president of the Confederation) and Mme. Poste, Professor and Mme. M. J. Suard, and M. and Mme. Gentil.

THE MAYOR of Blackpool gave a hearty welcome to the town. He said he had met the Executive, who seemed intelligent people. That they had come to Blackpool

proved them to be intelligent; yet why had they waited eighty-six years before meeting at Blackpool? He said that the Conference decisions would be for the benefit of humanity. He hoped all would enjoy the amenities of the town.

THE PRESIDENT thanked the mayor for his welcome, and especially for ideal Conference weather. Regular Conference visitors would notice a change of procedure, the president occupying the chair—a break with tradition. The reason was that the Conference was independent of the Society for many years, but in 1922 came under the Society, so that the president of the Society became president of the Conference. The chairman was the officer around whom the proceedings turned. At future Conferences the same procedure would be adopted. He called on Dr. Norman Evers to give his address.

The chairman's address is printed on p. 385.

A vote of thanks to the chairman was proposed by Mr. B. A. BULL, who congratulated Dr. Evers on an address excellent alike in matter and manner. The address had been phrased in simple words that the least technical could understand. The chairman had shown that the idea of a technique should be followed by a detailed job of analysis. He was pleased that Dr. Evers had drawn attention to the fact that progress in research could not be attained by good luck but only by assiduously looking at the problem in hand, backed by experiment, observation and inference. Dr. Evers had drawn a picture of a research worker as a man in love with his work. Seconding the vote, MR. MACKIE said Dr. Evers had explained pharmaceutical research in his inimitable way from the background of many years' experien

DR. EVERS replying, said that to praised by Englishman and Scot was pra indeed.

Apologies for absence were sent by F. W. Crossley-Holland, Mr. R. R. B nett, Mr. E. Saville Peck, and Mr. A. Melhuish. The Conference sent greeti to Mr. Melhuish on his eightieth birthd After local announcements the sess ended, and members had opportunities greeting old friends.

The Mayoress of Blackpool (Mrs. P. Yardley)

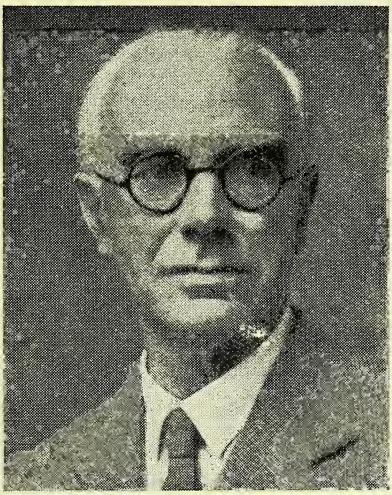
Civic Receptic

For Conferer leaders and others the headquart hotel a long tr began after dinr on Monday to t Casino on the Sou Shore, where t attendance w brought up to ov 500 at the civic ception by abc forty local tick holders. The gue were announced the Mayor's disti guished attenda and were received the Mayor a Mayoress, the loc chairman (Mr. Da son Cook) and M Dawson Cook. T Mayor, the chairma and their ladi opened the dancir by taking the flo with a waltz. T quadrant - shape second - floor Casir ballroom presented colourful and co mopolitan scene u der soft roof lightir and with masse flowers. The dancers showed entire co fidence in the floor which, in course erection in 1939, twice collapsed, but wa later completed for war-time Red Cro dances. The windows, then blackene now offered a view of Blackpool's illumi ated Pleasure Beach with its multilampe wheel and other amusements. The pr ceedings were ably M.C'd. by Mr. A. Dur kin (joint local secretary), and red-badge local stewards devoted their efforts t making guests welcome.

Chairman's Address

PHARMACEUTICAL RESEARCH

PROPOSE, this afternoon, to talk on pharmaceutical research, its aims and scope and its relationship to research medicine, chemistry and other sciences. considering the subject, I am conted by the difficlty of definition. he word "research" s become much erworked. Research nnot be defined acrding to the imrtance of the relts achieved; ther, it depends on e attitude of mind th which an inquiry approached. When ask myself "What pharmaceutical rearch?" I find it ually difficult to ovide an answer. harmacy is an art hich makes use of any sciences. I ould remind you of e words of Daniel anbury, which were oted by Dr. T. E. allis in his address the conference in 1943, and which I ink are worth repetition. He said, "Our t, gentlemen, is ever progressive. All ence is interesting to us since almost ery scientific discovery may sooner or ter, directly or indirectly, yield some relts profitable to pharmacy." I think e must say that pharmaceutical research research carried out with a pharmaceucal objective—which is rather like saying at an archdeacon is one who performs chidiaconal functions.



Mr. Norman Evers, Ph.D., B.Sc., F.R.I.C.

harmaceutical Objective

What, then, is a pharmaceutical objecve? I think that the best way to answer at question is to consider the different pes of investigations that can justifiably e claimed as pharmaceutical research. he following list is probably not complete, but, I hope, is fairly comprehensive:

1. The synthesis of new organic compounds with the object of discovering new drugs, and the examination of known compounds for new pharmacological properties.
2. The isolation and purification of the active principles of naturally - occurring drugs, the elucidation of their structure and their synthesis.
3. Pharmacognostical research.
4. Research on methods of cultivation of vegetable drugs with the object of producing maximum potency.
5. Methods of preparation of drugs in a form suitable for administration, under which heading we may include the preservation and sterilisation of medicinal products.
6. The chemical and biological standardisation of drugs.

Let us consider these divisions in rather more detail.

In organic chemical research, the number of valuable synthetic drugs discovered in recent years provides sufficient evidence of the primary importance to medicine of this type of chemical research. The organic chemist must, of course, work hand-in-hand with the pharmacologist who functions as a sort of compass and tells him whether he is moving in the right direction. Most research of this type is now carried out by specialised teams of workers. The organic chemist starts with a compound of known pharmacological action and, by modification of its structure, produces new compounds which he hopes will have an improved or modified pharmacological action. Simplification of

structure has proved a fruitful source of new drugs. Such simplification may have the advantage of substantially reducing the cost of treatment. Examples of this are seen in stilbœstrol and related compounds, which resemble in a much simplified form the structure of the natural œstrogens, and the new synthetic curarising compounds, which are substitutes for the natural alkaloid tubocurarine, are comparatively easily synthesised, and are very much cheaper. Sometimes researches lead the chemist far away from his starting point. The series of researches which started out to produce an improvement on mepacrine ended with Paludrine, a compound of very different structure.

New Compounds

Research of this type sometimes involves the production of hundreds of compounds in the laboratory. The sulphonamides are an example. Sulphanilamide was known for many years before its bacteriostatic properties were realised. That emphasises the importance of thorough pharmacological testing of all new compounds. Valuable drugs are sometimes discovered that bear no relation in structure to drugs previously known. The analgesic pethidine, for example, is modelled on the structure of morphine, but amidone is something quite different. The new antihistamine drugs are of a type not hitherto used in medicine and have a novel pharmacological action. The most remarkable development of recent years has been the discovery of drugs that act selectively on species of living organisms or upon one particular type of cell or enzyme. The antibiotics, antimalarials, Antrycide, etc., are examples of drugs acting selectively on certain organisms. Antihistamine, antithyroid, anticholinesterase and curarising agents are examples of selective poisoning of certain types of cells or enzymes. Increased knowledge of chemical constitution and its relation to pharmacological action, of the causes of disease and of the nutritional requirements of organisms is making the task of the organic chemist less subject to chance, but we are still a long way from being able to design a new drug like a machine on a drawing-board. The element of luck has not yet been entirely eliminated, but as Pasteur wisely said, "In the fields of observation chance favours only the mind which is prepared." It may have been a lucky chance that led Sir Alexander Fleming to the discovery of penicillin, but unless h mind had been prepared by years of r search and thought on such matters, wl knows that he would have appreciated i significance? It cannot be too strong emphasised that the greatest possible ca and the most thorough and exhausti trials are necessary before placing a ne drug on the market. Time and again drug, which has been thought from prelin inary tests to have an irreproachable cha acter and has been launched with flourish of trumpets, has proved to posse undesirable and even dangerous qualitie

The second type of research to which have referred deals with the isolation ar purification of natural drugs, the dete mination of their structure and synthesi Recent discoveries have shown th Nature still has something up her sleev A few years ago it might have bee thought that it was unlikely that any ne natural drugs of value would be discovere and that the future lay with synthet organic chemistry. Then came penicilli to show us an entirely new type of dru from an entirely new source—a compoun with a new sort of structure, and on moreover, that has not yet been synth sised except in minute quantity, in spi of the efforts of some of the finest organi chemists in the world. Then, as if to hea coals of fire on the head of the organi chemist, Nature produces chloramphen col or chloromycetin, a naturally occur ing antibiotic with a comparatively simpl structure, containing, above al things, nitro-group and two chlorine atoms, look ing for all the world like a typical produc of the organic laboratory, yet not amon the hundreds of thousands of compound that have been synthesised. Truly it be hoves those who pry into the secrets o Nature to preserve a spirit of humility.

Compound E

Another natural product that promise to be an important drug for the relief o human suffering is known as "compoun E," a substance obtained from the supra renal gland. The minute amount presen in the gland precludes its extraction fron natural sources in quantity, and all hope are centred on a successful synthesis. Th known synthesis is long and difficult, ever if supplies of raw material from *Strophan thus sarmentosus* are forthcoming in suffi cient quantity. The position is a challeng to the organic chemist and those who solv

will indeed have deserved well of mankind. After all, the production of penicillin in quantity seemed just as unlikely in its early stages.

Preparation for Injection

I cannot speak with any authority on pharmacognosy, or on the cultivation of drugs, so I will pass on to the section of pharmaceutical research which most properly merits the name—the preparation of drugs in a form suitable for administration. The introduction of a new drug into medicine entails four steps: (a) chemical production, (b) pharmacological investigation, (c) pharmaceutical investigation, and (d) clinical trial. The chemical research should supply information on the physico-chemical properties of the drug, the solubility, etc., and on its stability to heat, moisture and oxidation. The pharmacological research should give data on the best means of administration and the probable dose required, and some information about the method and rate of absorption, and excretion, whether the effect is transient or prolonged. The clinician can advise from such data on the type of pharmaceutical preparation which is most suitable for administration, whether dosage should be frequent, or whether the action should be prolonged by some means as the use of an oily medium for the injection. Nevertheless the pharmacist is by no means the least important link in the chain. Failure to provide a satisfactory pharmaceutical preparation may bring a new drug into discredit. The pharmacist, out of his experience, can and should give valuable assistance to the clinician as to the best method of administration of a new drug.

Elaborating an Injection

If an injection is required, a number of questions must be considered, such as:—(a) Is the drug sufficiently soluble and stable in water to make an aqueous injection possible? If not, can any other solvent be used or any addition be made to increase the solubility? Would any other form of the drug be more suitable for injection? If these questions cannot be answered satisfactorily, would a dry ampoule be a suitable method? (b) Is the addition of sodium chloride or other material necessary to make the injection isotonic? If so, how does it affect the solubility or stability of the drug? (c) Is the natural *p*H of the drug suitable for injection, and does it ensure the maximum stability or must the *p*H be stabilised by the addition of a buffer? (d) What is the most suitable preservative, if one is required, and is it likely to react with the drug or affect its stability? (e) What is the most suitable method of sterilisation? Does sterilisation by heat cause any decomposition of the drug or production of toxicity? If heat is unsuitable, does sterilisation by filtration cause any loss of potency? (f) Should the injection be protected from oxidation by filling the ampoule with nitrogen? (g) What is the stability of the injection as finally formulated under ordinary conditions, under tropical conditions, or under abnormally cold conditions? (h) If the injection is to be in a rubber-capped container, will contact with rubber affect the injection in any way? (i) Should the injection be protected from light?

Questions to Face

If the required form is an oily solution or suspension, other problems arise such as: (a) What is a suitable composition for the oily base?; (b) if a suspension is required, what is the most suitable particle size of the drug?; (c) does the drug remain easily dispersible in the base?; (d) is the viscosity suitable for drawing into a syringe? If the drug is administered orally, the problems are not usually so complex. If a tablet is chosen, the compatibility of the drug with the usual diluents or lubricants must be considered, and the amount and type of diluent necessary to give effective disintegration of the tablet, the possible effect of the granulation process on the drug, and the stability of the drug in tablet form.

New drugs may sometimes call for new methods of administration. I should like, if I may, to take an instance from my own experience of what I regard as an example of pharmaceutical research—the production of a chewing-gum containing penicillin. A completely new type of water-free base had to be produced, and the penicillin had to be incorporated in such a way that it was liberated over several hours of chewing. It was necessary for the desired consistency to be retained under a variety of storage conditions. There was also the problem of flavouring to be considered; that, too, must be liberated slowly and must not react with the penicillin. Problems such

as these can only be solved when the accumulated knowledge and experience of the trained pharmacist is brought to bear upon them.

Industrial Research

Much of the research in industrial laboratories is concerned with methods for large-scale production of new drugs and pharmaceutical preparations. But a continual stream of problems arises from existing preparations. New ingredients are introduced and reformulation is required to produce a new and improved product. Improved types of plant may require a modification of a production process. The question of stability provides more problems and more headaches for the pharmaceutical research laboratory than any other. For export products all sorts of conditions of temperature and humidity must be provided for. The proper organisation of research entails ready access to published literature. Much of the research worker's time can be saved by an efficient library service and indexing system. A knowledge of existing patents is essential before undertaking a piece of research. The number of patents granted for medicinal products is increasing and rendering the task of the research pharmacist more difficult. The success of a new drug induces rival manufacturers to produce a similar compound with a modification in structure, which avoids the original patent, but may or may not possess any therapeutic advantage. The greater part of pharmaceutical research is carried out in the laboratories of industrial firms, though much is done in the universities and schools and by hospital pharmacists. The days when the retail pharmacist can spare much time for research work have unfortunately passed. Nevertheless, the retail pharmacist of an inquiring mind must meet many problems which he could solve for himself with some expenditure of ingenuity. Pharmacy must not become mass-produced.

Much of the work done in industrial laboratories necessarily remains unpublished. Consequently there is much duplication. A great deal of unnecessary effort could be avoided by a proper organisation of pharmaceutical research by a committee such as was envisaged by the Executive Committee of this Conference in its report to the Council of the Pharmaceutical Society. There seems to be a need for increasing the amount of research work carried out on behalf of th British Pharmacopœia and British Pha maceutical Codex. It is important th the official pharmaceutical formulas shoul be the best possible and that the amour and quality of research applied to the formulation should be at least equal t that which would be given to the subje by a manufacturer. Pharmaceutical r search must always be the handmaide of medical research, but this does not mea that it must be entirely dependent upo it. In fact, the introduction of new c improved pharmaceutical products can an does influence methods of administratior A method of prolonging the action of drug by altering the form of presentatio may so reduce the number of doses re quired that treatment is much less irksom to the patient.

Personnel

The ideal type of research worker i rare and it is unlikely that all member of a research team will have the tru research mentality. The laboratory migh not be a very pleasant place to work i if they had. Most research necessitates a good deal of donkey work, and the plodde is needed as well as his more brillian colleague. The first-class research worke must be a person of ideas, and have th capacity of sorting out ideas that are practicable and those that are not. He mus have the capacity for perseverance an concentration necessary to carry an idea into effect. He must be an enthusiast and be able to inspire others, but he must not ignore unpleasant facts. He must be prepared to meet continued failure and rise with head "bloody but unbowed." He must not allow himself to be led away into by-ways, but must always keep the main object of his research before him. Above all, he must know when to stop. A good research worker will always feel that there is something more to be done, but in applied research, at any rate, a time comes when further work is unprofitable. He must be prepared to accept much of his reward in satisfaction with work well done. He should be able to say, as was said by an old chemist a few hundred years ago, "The chymists are a strange class of mortals impelled by an almost insane impulse to seek their pleasure among smoke and vapour, soot and flame, poisons and poverty; yet among all these evils, I seem to live so sweetly, that, may I die, I would not change places with the Persian King."

CONFERENCE PERSONALITIES

Local Committee Officers

Mr. J. L. Dawson Cook, M.P.S., .I.O., president of the Blackpool Branch, 'harmaceutical Society, chairman of the 3lackpool Branch, National Pharmaceuti- al Union, and chairman of the local Con- erence Committee, has been in business n Lytham Road, Blackpool, since 1936. Educated at Palatine Secondary School, 3lackpool, he was then apprenticed to Mr. F. Bradbury, Blackpool, and qualified rom Manchester University in 1929. After period of managership in Blackpool he ecame a partner in the firm of Bradbury & Cook, chemists, Chorlton-cum-Hardy, Manchester. He obtained his Fellowship liploma, National Association of Opticians, 936. Mr. Cook is a member of the local Pharmaceutical, Optical, Pharmaceutical Services, and Joint Services Committees, of the local Executive Council and of the inance committee of the Blackpool Cham- ber of Trade. He was for many years people's warden at St. Peter's Parish Church, Blackpool, and is now a patron of he living of St. Peter's. For a number of easons he was captain of the Blackpool hemists' football team, and he is captain of the Blackpool chemists' cricket eleven.

Mrs. J. L. Dawson Cook, chairman of the Blackpool Conference Committee (Ladies' Section), was born in Scotland, and came to Blackpool at an early age. She has many interests, including choral work (she was for many years a member of Blackpool Philharmonic choir), amateur dramatics, badminton and hockey. She is a member of the Blackpool Business and Professional Women's Club.

Mr. Fred J. Carter, M.P.S., treasurer of the Blackpool Conference Committee; treasurer, and president 1948-49, Black- pool Branch of the Pharmaceutical Society, qualified in 1920 from the Liverpool School of Pharmacy, after serving for almost four years in the 127th Field Am- bulance (Royal Army Medical Corps) in France during the 1914-18 war. After experience with Richardson & Co., Blackpool, Mr. Carter went into business on his own account in Bispham twenty-seven years ago. He is chairman of the local Pharmaceutical Committee, a member of the Executive Council and of the local Pharmaceutical Services, Hours of Service, and Joint Services Committees. He is president of the Bispham-with-Nor- breck Ratepayers' Association. For the twenty-seven years in his own business Mr. Carter has been ably assisted by Mrs. F. J. Carter (vice-chairman of the Black- pool Conference Committee, Ladies' Sec- tion). Mrs. Carter also helps her husband as a committee member of the ratepayers' association.

Miss Joyce M. Westwood, M.P.S. (treasurer, Blackpool Conference Com- mittee, Ladies' Section) qualified from the Leicester School of Pharmacy in 1939, after an apprenticeship in Hull. For the past eight years she has been manageress of Morris (Chemists), Ltd., Blackpool. She is a committee member of the Junior Sec- tion of the Blackpool Branch of the Phar- maceutical Society.

Mr. Alfred Greenwood, M.P.S., who is secretary of the Blackpool Branches of the Pharmaceutical Society and National Pharmaceutical Union, was the first per- sonal apprentice of Mr. A. J. Espley (at that time superintendent of Thornbers (Chemists), Ltd., Accrington). Later he be- came an assistant with that company. After experience (in the Isle of Man) and study at Manchester University, he quali- fied in 1943. Mr. Greenwood has two busi- nesses in Blackpool and is a member of the local Pharmaceutical Committee, of the executive of the local Chamber of Trade, and of local Conference committees. His wife is also a pharmacist.

Mr. P. Varley, M.P.S. (a joint secre- tary of the Blackpool Conference Com- mittee), owns two pharmacies in Black- pool. Apprenticed locally with Mr. P. Hogley, he qualified from Manchester Uni- versity in 1928. Secretary of the Blackpool Branch of the Pharmaceutical Society from 1938-47, he was elected its president in 1947. and treasurer in 1948. He is a member of the Blackpool Executive Coun- cil, Pharmaceutical Services and Ophthal- mic Services Committees, and is a non-

corporate member of the Blackpool Health Committee and of several of its subcommittees. In 1944, Mr. Varley was elected to the National Pharmaceutical Union Executive. He is a member of the N.P.U. Central National Health Service Committee, and chairman of its Publications and Price List Committee. For fourteen years he has been a member of the local Chamber of Trade Executive.

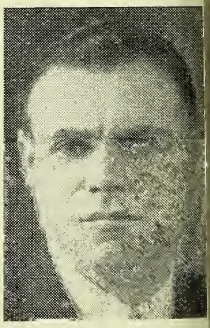
Miss Lilian I. Anderson, M.P.S. (secretary, Blackpool Conference Committee, Ladies' Section), is vice-president of the local Branch of the Pharmaceutical Society and secretary of its Junior Section. She qualified in 1939 from Manchester University, and has twice been vice-president of the Blackpool Business and Professional Women's Club.

Mr. T. A. Durkin, M.P.S. (a joint secretary with Mr. P. Varley (see above) of the Blackpool Conference Committee), has been on the committee of the Blackpool Branch of the Pharmaceutical Society continuously since 1924, during which time he has occupied the offices of secretary, chairman and, for seventeen years endin in May 1947, treasurer. Mr. Durkin qual fied in 1920 from the Liverpool Scho of Pharmacy after an apprenticeship wit Alderman W. J. Bailey, M.P.S., J.P., Blac pool, and service, during 1914-18, in th "King's Own," and in the Royal Arm Medical Corps. In 1936, after disposin for reasons of ill health, of businesses i Lytham and Blackpool, which he ha owned for some twelve years, he joine the representatative staff of James Woolle Sons & Co., Ltd., Manchester, and is a present the company's West Lancashir representative. He has served on the Blac pool Pharmaceutical Committee an Chamber of Trade Executive, has bee secretary, chairman and treasurer of th Blackpool Branch, National Pharmaceutic Union, and was for many years on th council of the Photographic Dealers' Asso ciation. For a number of seasons he wa captain of the Blackpool chemists' cricke team, and he is an ex-captain of th Lytham Golf Club. During the 1939-4 war he was a major in the Home Guard

Authors of Science Papers

Mr. W. B. Emery, B.Sc., F.R.I.C. (co-author of a paper on vitamin B_{12} concentrations in liver extracts) is head of the biochemical department, Fermentation Division, Glaxo Laboratories, Ltd., Barnard Castle. He joined the company after graduatign from London University with first-class honours in chemistry in 1940 to carry out research at Greenford upon the manufacture and purification of liver extracts. Later he carried out investigations on the microbiological assays of vitamins, and in 1944-45 was a member of a subcommittee of the Society of Public Analysts appointed to investigate microbiological assays of riboflavine and nicotinic acid. He was later transferred to the company's Barnard Castle works, where he carried out and directed research work including penicillin, streptomycin, and vitamin B_{12}.

Dr. R. E. Stuckey, B.Sc., Ph.C. F.R.I.C., joint author of a paper on colou variations in liquid extract of liquorice, is chief analyst to The British Drug Houses, Ltd. He passed the Pharmaceutical Chemist Qualifying examination in 1936 from the Pharmaceutical Society's School. Later he obtained the B.Sc., and, for research on acridines on barbituric acid derivatives, the Ph.D. degree. Before joining the British Drug Houses in 1947, Dr. Stuckey was Deputy Director of the Home Office Laboratory, at Preston. Dr. Stuckey is a member of a number of subcommittees appointed by the British Pharmacopœia Commission, and is the author of a number of scientific papers that have been published in the technical Press.



Mr. E. A. Rawlins, Ph.C., (joint author of a paper on bacterial survival in systems of low moisture content) was

pprenticed to Mr. R. H. Rowson, Ph.C., Harrow, Middlesex. After study at Portsmouth Municipal College he qualified as chemist and druggist in 1940 and as a harmaceutical Chemist the following year. rom 1942-46 he served in the Royal rmy Medical Corps, mainly in India. He at the present time engaged as a demonstrator in pharmacy at Manchester niversity.

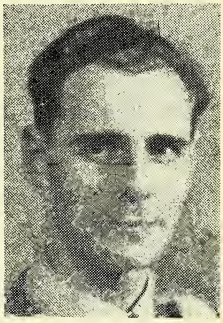
Mr. G. E. Shaw, B.Sc., Dip., Bact., uthor of papers on microbiological assays using *Lactobacillus lactis* Dorner and on the growth activity for that organism on liver extracts) is head of the biological research department, Evans Biological Institute, Runcorn. He joined the staff of Messrs. Evans shortly after graduating, and his work there has included research on vitamin A, the

itamin B complex, the pituitary hormones, acterial toxins and antitoxins, and liver xtracts (and recently vitamin B_{12}). Mr. haw is the author of some twenty-nine riginal papers that have been published n the scientific and technical Press during ne past few years.

Mr. L. H. Boardman, B.Sc., Ph.C. one f the opening speakers of the symposium session of the Conference is a director (since 1930) and works manager (since 1934) of James Woolley Sons, & Co., Ltd., Manchester. He was apprenticed with Messrs. Boots in Douglas, Isle of Man, and later had further retail experience in private pharmacy. A former Fairchild and Leverhulme scholar

nd Pereira medallist, his name is also to e found among the list of prizewinners in he erstwhile *C. & D.* analytical tournaments. Mr. Boardman qualified as a Pharmaceutical Chemist from the Manchester School of Pharmacy in 1926, and joined the staff of the school as a demonstrator and lecturer. Later he was appointed to the works staff of Messrs. Woolley. Subsequent to joining the company Mr. Boardman graduated B.Sc. (London), and became an Associate member of the Institution of Chemical Engineers.

Mr. J. C. Floyd, B.Sc. (Pharmacy), Ph.C., author of a paper on penicillin formulations, was apprenticed with Boots, Ltd., Bolton (his native town). He studied at Manchester University, graduating in 1945. Mr. Floyd has worked since then with Imperial Chemical (Pharmaceuticals), Ltd., Manchester, being chiefly concerned with work connected with problems on the formulation of preparations for veterinary and medical use.



Miss Chloe Klatzkin, B.Pharm., Ph.C. (co-author of a paper on the assay of riboflavine in malted preparations) has been on the staff of the Ovaltine Research Laboratories since 1945. Miss Klatzkin was born in London and educated at Dame Alice Owen's Girls School, London. After study at the School of Pharmacy, University of London, she graduated B.Pharm. (London) in 1939. She then served her apprenticeship with Mr. F. B. Royal at St. Mary Islington Hospital, London and qualified as a Pharmaceutical Chemist in 1940. She remained in hospital pharmacy until 1945, serving for two-and-a-half years at St. Alfege's Hospital, Greenwich. Miss Klatzkin obtained the Pharmaceutical Society's Diploma in Biochemical Analysis in 1949.

(*To be continued.*)

SCIENCE SESSIONS

OPENING the Science Sessions on Tuesday morning in the well-filled foyer of Blackpool Opera House, THE CHAIRMAN of the Conference (Dr. Norman Evers) said the time allotted to each paper was twenty-one minutes. He asked readers of the papers to confine themselves to ten-minute summaries. The first paper was:

Beetle Fragments in Powdered Drugs

BY C. MELVILLE

[ABSTRACT]

A RAPID and effective method of isolating insect fragments from powdered infested drugs is described which depends on solution of the crude fibre of the drug in acetic anhydride containing 10 per cent. v/v of concentrated sulphuric acid. The diagnostic microscopical characters of five of the more common beetle pests of drugs (*Stegobium paniceum* L. (the drug-room beetle); *Ptinus tectus* Boie. (the brown spider-beetle); *Niptus hololeucus* Fald. (the golden spider-beetle); *Calandra granaria* L. (the grain weevil); and *Lyctus brunneus* Steph. (a powder post beetle)) are described. (From the Department of Pharmacy, University of Manchester).

DISCUSSION

THE CHAIRMAN said the subject was important. Food regulations in the U.S.A. were stringent; if they were adopted for drugs in the United Kingdom, few samples would pass. Yet a test based on some such method as the author's might become necessary.

DR. T. E. WALLIS thanked the author for going into such fine detail to distinguish and frequently to name infecting materials. He asked how far it was possible to see insect particles in quantities such as the author had used. MR. MELVILLE said that depended on the extent of infestation and bulk of fibre. In more liquified material than he had used he was unable to see particles in crude fibre. Replying to DR. GARRATT (Nottingham), he remarked that rodent hairs would be dissolved by the preliminary treatmer recommended, but the test could possibl be adapted to show both kinds of infesta tion.

MR. HAROLD DEANE (Long Melfor was told that no work had yet been don on moths. The author had done work o larval skins and hoped to do further work these skins were not mentioned in th paper, however.

MR. T. C. DENSTON (London) aske what drugs had proved unsatisfactory fo examination by the flotation method: H was told that it had not proved suitabl for herbs. Mr. R. MAXWELL SAVAGE (Bar net) drew attention to a recent paper o the separation of lice from animal skins DR. G. E. FOSTER was told that the mos characteristic fragment in identificatio was the elytron. The author added tha the best method of preventing beetles i small stores was carbon tetrachloride an ethylene dichloride or carbon disulphid (℥j. per 10 cubic feet); on a large scale hydrocyanic acid or a similar treatment

Indian Henbane—Part I

BY J. L. FORSDIKE AND B. JOHNSON

[ABSTRACT]

IT was thought worth while to carry ou some investigation of hyoscyamus from India with a view to ascertaining its botanical origin and characters. As a result, it has become apparent that there are several types of henbane growing in India and Pakistan in addition to *H. niger*. The other types include plants whose habits are quite different from the typical form of *H. reticulatus*. The paper is mainly a description of one such species which grows wild in the North-West Frontier Province. The macroscopical and microscopical characters are described. The total alkaloid contents of the specimens examined were, except in one case, less than the minimum required by the British Pharmacopœia for hyoscyamus. The acid-soluble ash was greater than that usually found in *H. niger* grown in England, but about equal to that found in *H. niger* from India. A

port of a germination test on the seeds given. (From the Analytical Laboratory, ots Pure Drug Co., Ltd.)

The paper was read in abstract by Miss hnson.

DISCUSSION

DR. T. E. WALLIS hoped that the thors would be careful in deciding hether a plant was a different species. xperience showed to what extent structres varied in the same species. Crystal ze was not of the highest importance in entifying species. The suggested quantitive details in the paper would be better lled numerical.

DR. J. M. ROWSON (London) was also eptical that the plant was a different ecies. After growing annual henbane r ten years he was amazed at differences the same species. DR. W. MITCHELL sked if the alkaloids had been examined. R. A. R. G. CHAMINGS thought that etter results could be obtained from successive refrigerations. DR. MELVILLE id that a *Hyoscyamus niger* hair had a land of twenty cells, whereas the gland own by the authors was simple—a posble differential character. DR. FOSTER sked for details of a volatile alkaloidal ontent.

MISS JOHNSON, replying, told DR. WALIS that they still had to prove that the lant was a different species. MISS JOHNON said that the material available was mall, and details of alkaloidal content ere not determinable. Refrigeration for onger periods was recently tried, but no eport was available yet. MR. FORSDIKE dded that experts were fairly satisfied hat the plant was not *H. niger,* but were ot sure which species it was; more inormation was hoped for next year.

The next two papers were:

Active Constituents of Anthracene Purgatives

PART I. GLYCOSIDES AND AGLYCONES

BY J. W. FAIRBAIRN

[ABSTRACT]

VEGETABLE drugs containing anthracene derivatives (senna, leaf and pod; cassia pulp; cascara sagrada; frangula; rhubarb and aloes) all respond to tests by means of which the anthracene derivatives are converted into free anthraquinone compounds that give pink to red colours in alkaline solution. For the purposes of the investigation the anthracene derivatives are classified as (*a*) glycosides, (*b*) free anthranol compounds, and (*c*) free anthraquinone compounds. Recent experiments suggest that the activity of the anthracene purgatives may be accounted for by either (*a*) synergism of the free anthraquinone compounds as in cascara, or (*b*) highly active glycosides as in senna leaf and frangula bark. In both senna leaf and frangula bark more than nine-tenths of the anthracene derivatives present occur as glycosides. The results of the investigations show that the anthracene derivatives are highly active as anthranol glycosides, less active as free anthranols and much less active as free anthraquinones. The more complex aglycone (dianthranol) of sennoside A is more active than the simple anthranol of aloe emodin. The theory is advanced that the sugar moiety of the glycoside not only acts as a "transporter" of the active aglycone, enabling it to reach the large intestine, but is also a "protector" that prevents oxidation of the aglycone to the (orally) relatively inactive anthraquinone. The experiments also show that a determination of "total anthraquinones," irrespective of their form of occurrence, is no guide to biological activity. Further work on the glycoside fractions is being carried out. (From the pharmacognosy research laboratory, School of Pharmacy, University of London).

Biological Assay of Vegetable Purgatives

PART I.—SENNA LEAF AND FRUIT

BY T. C. LOU

[ABSTRACT]

SEVERAL biological methods of assay of purgatives have been described and reviewed. Straub and Gebhardt used white mice and determined the minimum effective dose (ME) of senna infusions, expressing potency as the number of such doses per mil of infusion. Geiger adopted a similar method but introduced the use of a 5 per cent. infusion of senna leaf. Work was commenced by the author in 1947 on the basis of a modified Geiger method, but experience showed that improvements were necessary. Special cages were devised to avoid the use of large numbers of frog-jars or beakers, a definite proportion of water was added to the feeds during test, and counts of wet fæces only were used as

criteria of activity. The relation of the number of wet fæces per kilo of mouse to the logarithm of the dose was found to be linear. Forty mice, divided equally into four groups, were used in each assay. Two groups received the standard preparation and the other two groups the test preparation. The standard deviation of a single determination based on nine such assays was estimated to be 15.7 per cent. The limits of error for single assay (P=0.99) are 100±40.5 per cent. The method described is convenient and gives a comparatively high degree of accuracy. It has been successfully applied to senna leaf, senna fruit and extracts and commercial preparations made from these drugs, pure glycosides (sennosides A and B), and pure anthracene compounds (aloe-emodin and aloe-emodin anthranol). The author thanks the Department of Pharmacology of the University of London, Dr. F. J. Dyer, Dr. J. W. Fairbairn (head of the Department of Pharmacognosy) and Mr. A. H. Fenton for help. (From the School of Pharmacy, University of London.)

Discussion

The Chairman said the work seemed likely to put us in a position of knowing the active constituents of these substances. Dr. I. Michaels contrasted the use of senna pods in the United Kingdom with the use of senna leaves in the United States. The literature gives the pods as the more certain cause of purgation; if so, it is logical to assume that the pods contain a higher proportion of active principles. It would be interesting to have comparative figures for Alexandrian and Tinnevelly sennas. The griping action was due to the mericarp alone without the seeds. It was reported to be less than from the whole pods, suggesting that the griping principle was located in the seeds; yet the seeds were recorded free of anthracene derivatives, therefore other principles were involved in griping The theory of Staub and Trindle requires that senna glycosides pass practically unchanged into the small intestine, where they are absorbed. There they are hydrolysed by enzyme, liberating emodin. After a latent period of from ten to twelve hours, emodin reaches the large intestine, where it stimulates peristaltic movement. It is possible that any free emodins originally present pass to the large intestine more rapidly and may cause griping by stimulating peristalsis in the small intestine. Mr. E. F. Hersant thought it did not follow that glycosides were nc hydrolysed in the stomach. Dr. F. Sai (Egypt) thought it unlikely that if senn glycosides were not hydrolysed in the stc mach they were hydrolysed elsewhere. Ha the effect of injecting the glycosides bee tried? Mr. Reid (London) asked wh public taste in senna had changed so muc in forty years.

Dr. T. E. Wallis congratulated th Department of Pharmacognosy on depart ing from the predominantly structura study of drugs. He asked Mr. Lou if an purgative tests had been done usin daphnea as the test animal. Mr. D. C Garrett appealed to Mr. Fairbairn t continue and produce an accurate chemi cal assay method. Mr. A. R. G. Cham ings said the papers showed a trend to wards introducing pharmacological factor into the Conference. Mr. Walker (Lon don) reported clinical trials showing pre parations of senna often poorly active com pared with the pods themselves. Dr. F Hartley (London) asked for data on th rate of hydrolysis recorded in a table.

Mr. H. Deane congratulated Mr. Lou on devising an apparently accurate bio logical method. He thought senna wa much more susceptible to heat than cas cara or rhubarb. Mr. H. B. Mackie (Brighton) said that hydrolysis, while re ducing potency, increased palatability: the two factors must be balanced in good pre parations.

Mr. Fairbairn, replying, said the points raised made him glad he had labelled his paper "Part I." Dr. Michael's point was the next on the list for study. Examination had shown that pods contained twice the glycosidal content of leaves, but were not much more active. It was curious that pure glycoside was described as non-griping by some manufacturers, and pure anthraquinone was similarly described by others. He had been intentionally cautious. The drugs in the group had been shown to be ineffective by injection. The preference for the pods might be wrong, but he hoped to investigate. He agreed with Mr. Mackie, but hoped pharmacists would not produce palatable preparations at the expense of activity. Mr. Lou, also replying, thought results on the basis of a single sennoside might have been misleading. He had no experience of daphnea as a test animal. Preparations weakly active on mice he had found inactive on trying them on himself.

(To be continued)

BIRMINGHAM CITY ANALYST'S REPORT

ie report of the Birmingham City alyst (Mr. H. H. Bagnall, B.Sc., R.I.C.), for the first quarter of 1949, tes that of the 173 samples of drugs ken, eleven were incorrect. The eleven ppliers received a "caution." The ugs examined were as follows:

Boric ointment. A sample contained 3 per cent. boric acid, instead of the per cent. required by the B.P. 1932.

"Honey and horehound compound ugh mixture." A sample was labelled accordance with the Pharmacy and edicines Act, 1941, with a list of the gredients present including honey 1.6 r cent. horehound 0.5 per cent. and ucose syrup, 85 per cent., as sweetenig agent. This label was reported as ing "calculated to mislead" as to the ture of the mixture, contrary to Secon 6 of the Food and Drugs Act, on the ound that while the words "Honey" d "Horehound" were very prominently inted on the label in large type, the nounts of these substances present were small as to render so prominent a dearation unjustifiable. 1.6 per cent. honey d 0.5 per cent. horehound certainly did t merit capital letters; the amount of e horehound present in the whole bot: was less than the B.P.C. minimum edicinal dose.

Disinfectant fluid. A sample labelled about 25 per cent. v/v" phenol coined only 21 per cent. v/v. Vendors ated that they purchased it as containg 25-30 per cent. phenols, from a manucturing firm who subsequently expressed gret at this accidental lowering of qualy, and gave instruction for the amendent of all the labels of stocks in hand.

Influenza mixture. The bottle was belled, as required by the Pharmacy nd Medicines Act, with a list of the conituents. This list included "chloroorm 0.25 per cent., but only 0.16 per ent. was present. The vendor took the ixture off sale, and informed suppliers.

Kaolin poultice, was labelled "B.P. 932 (4th Addendum)." In this war-time ormula, owing to the scarcity of glycerin, e 42.5 per cent. of this ingredient reuired by the 1932 B.P. was replaced by he same amount of 70 per cent. sodium actate. The formula was no longer fficial, and the B.P. 1948 required lycerin to be used. The retailer had sold all his stock, which was received by him about two months previously.

Parrish's chemical food. One sample contained 1.18 per cent. ferrous phosphate, instead of the 0.90 per cent. demanded by the B.P. "The retailer asked for and received the sample analysed in this laboratory, and proposed to forward it to his wholesale dealer for their observations. No further communication has as yet been received." Another sample, from a second retailer was bought the same day, and this also proved to contain an excess of ferrous phosphate.

Seidlitz powder. The blue paper of the first sample contained in addition to the usual amounts of sodium bicarbonate and Rochelle salt, 0.14 gm. of sodium sulphate. The wholesale dealers were unable to explain this, but stated that at one period their process of manufacture had been interrupted on account of the difficulty of obtaining good quality Rochelle salt, and that one or two batches of the latter had been rejected because they contained large traces of sulphate. It might be that some of this faulty material had escaped notice and had been incorporated in some Seidlitz powder. The amount found in the sample in question was, however, more than a "trace," it being 1.4 per cent. of the total weight of the contents of the blue paper. Another sample of Seidlitz powder was quite unlike the official article. The white paper contained only 1.89 gm. of tartaric acid (a deficiency of 24 per cent.), and the blue paper, while correct so far as the weight of bicarbonate was concerned, contained 17 gm. of Rochelle salt instead of 7.5 gm. This may have been a very poor attempt at making the B.P.C. double strength powder.

Salicylic acid ointment. A sample containing 1.6 per cent. salicylic acid (a deficiency of 20 per cent.).

Tablets of soda mint. A sample contained only 0.234 gm. of sodium bicarbonate per tablet, whereas the B.P. required not less than 0.30 gm. per tablet. The retailers discovered that in addition to their stock of B.P tablets, they had a few bottles of old stock left, dating from before February, 1945, when the 7th addendum to the B.P. 1932, which first laid down the standard for the tablets, came into force.

MISCELLANEOUS INQUIRIES

Solid Perfume.—*R. L. A.*—A "solid perfume" may be prepared as follows:—

White beeswax	200
Japan wax (or substitute)	200
Ethyl phthalate	400
Concentrated flower oil, or other concentrated perfume	200

The hardness may be varied by modifying the proportions of wax and fixative.

Cod-liver Oil Flavouring.—*S.C.L.*—No flavour we have come across can entirely mask the characteristic flavour of cod-liver oil. Some of the manufacturing houses specialising in flavouring essences offer "cod liver oil flavourings" which are fairly successful, especially if more than one is used. They are understood to be synthetic compounds of "fruity" type.

Sunscreen Cream.—*M. F.*—The following is a suggested formula for a sunscreen cream:—

Isobutyl para-aminobenzoate	1.5
Sesame oil	15
Greaseless absorption base	25
Anhydrous lanolin	3
Progallin P pure (as antioxidant)	0.1
Water	55.4

Dissolve the isobutyl para-aminobenzoate and the Progallin P in the sesame oil, add the greaseless absorption base and lanolin, then warm to 45-50°C. Strain into the mixture separately, warm the water to the same temperature and add to the fats in a thin stream. Perfume and pass through colloid or ointment mill, or through a homogeniser.

Anthrax in Animals.—*R.D.B.*—Anthrax is an acute, and generally fatal disease caused by *Bacillus anthracis*. Farm animals most susceptible are cattle, pigs, sheep, goats, and horses, in that order. Treatment of affected cattle, on account of the usually rapid and fatal course which anthrax takes, is of little avail and is seldom attempted (Ministry of Agriculture and Fisheries animal leaflet No. 30). On the other hand, because of the more protracted course of the disease, affected pigs can be treated with serum and frequently respond favourably. There are also preventive measures, such as vaccination, which should be considered on premises where the disease is recurrent. When the circumstances appear to warrant treatment by the serum or vaccine the advice of a veterinary surgeon should be consulted.

Swiss Advertising Rates.—*C.R.E.*—Most Swiss newspapers quote two or ev three different advertising rates: the lo est to firms in the same town, the ne to all the other firms in Switzerland, a the highest to firms outside Switzerlan An agent in Switzerland advertising in l own name on behalf of a foreign firm pa either the local or Swiss rate, but certa publishers apply the foreign rate unl the Swiss firm can prove that the adve tisement is for its own account and is i dependent of instructions from the forei principal. Some insist that payment made in advance in Swiss francs if t foreign rate is not to be applied. N commission to publicity agents is grant in such cases, and a foreign publici agent wishing to obtain its commissi would be quoted foreign rates. To secu the Swiss rate, the name of the Swiss di tributor or agent should appear in t advertisement. The foreign rate is sa to have been adopted to cover addition expense connected with advertisemen placed by foreign firms.

Purifying Water.—*H. J. M.*—The fo lowing emergency method of purifyin water allows for the absorption of chlorin by organic matter:—Weigh carefully 2 g potassium iodide and dissolve in 4 fl. o distilled water. Measure 1½ fl. dr. of th solution and make up to one pint with di tilled water. Repeat, using 3 fl. dr. an 4½ fl. dr., respectively, to a pint of wate The procedure gives concentrations equi valent to two-and-a-half, five, and seve and-a-half parts per million of chlorin Place exactly equal quantities of the solu tions in similar measures (preferably Nes sler glasses). Add to each a few drops o Dakins solution, a little acetic acid and drop or two of starch mucilage, to pro vide the standard colours. Now add bleach ing powder to the water to be purified t give a concentration of five parts per mil lion (confirmed by placing the same quan tity as before in a standard measure) Allow to stand for twenty minutes befor adding excess potassium iodide solution acetic acid and a little starch mucilage. The depth of colour should correspond t the five-parts-per-million standard (th other two standards provide a means o comparison). When the water is required for drinking, a crystal of sodium thiosulphate should be added to the water.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Appreciation

Sir,—I was interested in Mr. Cripps's icle on the purchase of the first num- of The Chemist & Druggist (*C. &* September 10, p. 357). I have one newhere amongst my papers, which I ieve I picked up some years back on bookstall in Farringdon Road. I have bscribed to the *C. & D.* since I com- nced business on my own in 1904, and d access to old copies of the *C. & D.* years previous to that. I was much erested in the answers to correspondents. . A peculiar circumstance happened re soon after I started. A housekeeper the district said she could tell me some- ng I had never heard of. . . . She ghed when I told her I had read it The Chemist & Druggist some years eviously.

Highams Park, E.4. W. E. Gaze.

Lozenges and Tablets

Sir,—Recent proceedings in the courts ve shown that there is some misunder- nding as to the correct definition of the rms lozenges and tablets. Perhaps it will t be out of place for us to remind your aders that definitions were evolved by presentatives of the pharmaceutical in- stry and published by the British Stan- rds Institution in April 1944. The de- itions are as follows:—

Lozenges.—Lozenges are pharmaceutical ecialities prepared by mixing the medica- ent, flavour, etc., with a sugar-gum base. e mixture is then moistened, worked o a stiff paste, rolled out to the thick- ss of the intended lozenges and the enges punched out and dried.

Tablets.—Tablets are medicated pro- cts made by the compression (in a achine designed for the purpose) of the edicament in crystals or granules pre- ously prepared and in a dry state.

If these definitions are borne in mind, a nsiderable amount of confusion will be oided.

Meggeson & Co., Ltd.
R. Campbell Feather,
ondon, S.E.16. *Managing Director.*

Briefed or With Open Mind?

Sir, — The system of "abbreviated icing," accepted under protest by many cottish chemist-contractors, is to be re- viewed again this month. The negotiating committee and Standing Committee have emphasised that to recommend acceptance went very much against the grain. The proposals were forwarded to local Pharmaceutical Committees for discussion, and for the instruction of their delegates. It has, however, been contented that delegates could and should be entitled to change their minds at the meeting. Will someone in authority inform me what is the object of discussion and instruction by local committees if delegates must come to the meeting with open minds? I trust Pharmaceutical Committees will insist that, if further information becomes available, prior to or at the meeting, the meeting will be open to decide whether to adjourn or proceed. Personally I take a dim view of the Standing Committee's action in having a member of the Department of Health to address the meeting in order to bolster up the case for acceptance, particularly when it was stipulated that that gentleman was not to be questioned. In the lay Press we have read that chemists had "volunteered" to give up half of the container allowance as a contribution to lessening the cost of the National Health Service. The question of increased remuneration is still under discussion. If it should become supposed that pharmacists can afford to give such handsome donations to the Exchequer, and to do part of the work of the pricing bureau free of charge, what sort of an argument can be put up for increased dispensing fees? My views are shared, I know, by many of my Scottish friends, and I hope that in the months to come it will be made clear that drastic action can and will be taken to end what appears to be a policy of appeasement towards the Department.

Anstruther R. S. Whitelaw.

Dated Advertising Literature

Sir,—I today discovered, when selling a well-known proprietary preparation, that it enclosed a leaflet giving particulars of a 1948 holiday competition with a closing date long since past. As I ordered the product only two months ago my stock is new, though customers may get the impression that it is obsolete. I would advise other chemists to examine their own stocks of any proprietaries of this kind.

Fingal.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quan ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, Sept. 14

THE volume of inquiry for PHARMACEUTICAL and FINE CHEMICALS continues on a moderate scale and a routine business has been done on home and export account. Prices are without material alteration on the week, with the exception of ZINC OXIDE which has reverted to the level prior to the recent increase. In the CRUDE DRUGS market, shortages of many principal articles persist and prices generally are fully maintained, while in a number of instances higher values are indicated. CASCARA SAGRADA on the spot is in rather short supply, although new-crop is now coming forward at somewhat lower prices—1946 peel is currently quoted at 180s. per cwt., duty paid, while there is a small parcel of 1947 peel available at 175s., duty paid; new-crop afloat is quoted at from 165s., c.i.f., duty paid. There has been a small improvement in supplies of ERGOT and a corresponding easing in forward and spot values. The situation of IPECACUANHA is little changed; no offers of root are forthcoming from Brazil and supplies of Colombian will become increasingly difficult to procure. Any available Chinese RHUBARB, sound and of good fracture, would now command a price of 6s. 6d. per lb., duty paid, while spot values may go higher. SENEGA is in short supply and the spot market is firmer reflecting high prices at origin. Belgian VALERIAN is dearer. In the markets for GINGER the price of African root is fully maintained while Jamaican shows a further increase. The GUM markets are firm. Drought conditions in the Sudan have brought about higher prices for GUM ACACIA while reports from Persia indicate that the TRAGACANTH crop is likely to be small. Business in WAXES has been small with consumers showing little interest in CARNAUBA and OURICURI at the current level of prices. The MENTHOL market continues quiet, with spot values fully steady although there has been a small decline in shipment values. Activity in ESSENTIAL OILS has been slight but there has been little indication of easier conditions. On the contrary, ANISE, EUCALYPTUS, BOURBON GERANIUM and French LAVENDER have been firmer markets. PATCHOULI is difficult to find on the spot; it is understood that a number of distillers of this oil in Singapore have suspended work owing to the difficulty of obtaining raw material, prices of which have greatly increased as a result of speculators' activities. Ministry of Food prices of REFINED OILS are unchanged. CASTOR OIL, B.P., is reduced by £12 per ton.

U.S. Drug and Chemical Repo

New York, September

THE PHARMACEUTICAL and FINE CHEMICALS market has been without feature ov the past few days. Following the redu tion in MERCURY prices noted recentl there is no pressure to sell on the mark and it is understood that some dealers a quoting up to $78 for quantities below 1 flasks, though $73 would be done in tl case of a large order. MERCURY DERIV TIVES are still officially priced at the leve fixed when the basic metal cost betwee $85 and $90 per flask, but it is reporte that some shading from these rates is b ing effected on current sales. There h been a good inquiry for SANTONIN, suppli of which are unobtainable on the open ma ket. Lower COD-LIVER OIL prices came in effect at the beginning of the month fo lowing reductions in the Norwegian offici price. Against $2.10 to $2.20 previousl the oil is now quoted at $2.00 to $2.10 pe gall. Declining prices are also noted fo certain vitamin oils. A rather dull perio is reported in the CRUDE and BOTANICA DRUGS markets, but those articles reporte in short supply recently still appear to b as hard to get as ever. Chinese items re main difficult to locate, and ERGOT an IPECACUANHA are as tight as they were week ago. Reports in the market say tha PAPAIN is likely to go higher in the nea future, while VEGETABLE WAXES display marked firmness—whether the refusal o Brazilian producers to give way as regard price is attributable to attempts to furthe the shortage in the U.S. cannot yet b decided. The ESSENTIAL OILS market ha been active recently and higher prices ar quoted for a number of oils including ANISE LEMONGRASS, PATCHOULI, and BERGAMOT The upward adjustments are all attribute to higher costs at the source of supply an scarcity conditions on the spot. The spo markets for Spanish SPIKE LAVENDER and ROSEMARY are also firm with only smallish quantities offering. In the aromatic chemical section, stocks are said to be good and prices steady.

Pharmaceutical Chemicals

ADRENALINE.—B.P. is quoted from 3s. to 3s. 6½d. per gm. for natural and 2s. to 2s. 6d. for synthetic; racemic, 2s. per gm.

ASPIRIN. — Steady. Home-trade price for POWDER is 3s. 5½d. per lb. in 10-cwt. lots and 3s. 7d. ped lb. in 1-cwt. lots. Scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. are: 4s. 6d. (1-lb. containers); 4s. 5d. (2-lb.); 4s. 4½d. (4-lb.); 4s. 3½d. (7-lb.); 4s. 3d. (14-lb.); 4s. 2d. (28-lb.). Net one month. Rates

1,000 for bulk supplies of TABLETS : Under 5,000, 3s. 9d.; 5,000 and over 7d.; 10,000, 3s. 6d.; 25,000, 3s. 4d.; 000, 3s. 3d.; 100,000, 3s. 2d.; 250,000, 1½.; 500,000, 3s. 1d.; 1,000,000, 3s.

BENZOIC ACID. — Makers' quotations for rmaceutical quality are from 2s. to 10d. per lb., as to quantity.

BORAX.—Rates for B.P. are unchanged follows: Granular, £38 per ton; pow- r, £39 10s.; powder, extra fine, £40 10s.; stal, £39. Rates for commercial grades 9.5 per cent.) are: Granulated, £27; wder, £30; powder, extra-fine (or stal), £31. Smaller quantities are from to 5s. per cwt. more than the fore- ng rates. Carriage paid (minimum 1- n lots) in the U.K.

CALAMINE.—Quotations for 1-cwt. lots e at 1s. 8d. per lb. A firmer market.

CHLORAMINE.—B.P. grade is from 2s. 5d. 2s. 9d. per lb. and 98 per cent. technical 2s. 2½d. to 2s. 5d. per lb., according to ality.

CHLOROPHYLL.—Pharmaceutical quality offered at 60s. per lb.; soapmakers' grade available at 17s. 6d. per lb.

CHRYSAROBIN. — Quotations are from s. per lb. (1-cwt. lots) to 35s. 9d. per (14-lb.). In good request.

CITRATES — Prices are as follows:— TASSIUM, 5-cwt. lots, 2s. 10½d. per lb.; cwt., 2s. 11½d.; scheduled prices for antities of 28 lb. to 1 cwt. are (con- iners in brackets): 3s. 9½d. (1-lb.); 8d. (4-lb.); 3s. 7d. (7-lb.): 3s. 6½d. 4-lb.); 3s. 5½d. (28-lb.); IRON AND AM- ONIUM CITRATE, B.P., 7d. per lb. more; DIUM B.P., 3d. per lb. less; powder, 1d. r lb. extra.

CITRIC ACID, B.P. — Steady. Makers' ote 1s. 5½d. per lb., less 5 per cent. for cwt. lots, delivered in the U.K.

CREAM OF TARTAR. — Makers' rates for e home trade are unchanged: 10 cwt. ts, 148s. per cwt.; 5-10 cwt., 149s.; less an 5 cwt. and more than 2 cwt., 150s.; 2 cwt., 152s., delivered.

EMETINE.—Steady. Makers' rates per , are as follows: HYDROCHLORIDE, 1 oz., 7s.; 4-oz., 180s.; 16-oz, 177s. 6d.; 32 . 175s. BISMUTH IODIDE, 1 oz., 96s. 6d.; oz., 95s.; 16 oz. 93s. 6d.; 32 oz., 92s.

ETHER. — Current rates for the home ade are as follows: SOLVENT, B.P., 1 n, 1s. 10½d.; 10 cwt., 1s. 11½d.; 5 cwt., . 0½d.; smaller quantities, from 2s. 1½d. 2s. 6d. per lb. ANÆSTHETIC, B.P., 1 n, 2s. 5½d..; 10 cwt., 2s. 6½d.; 5 cwt., . 7½d.; 1 cwt., 2s. 8d.; smaller quantities om 2s. 9½d. per lb. TECHNICAL is 1½d. per . less than solvent ether. The foregoing rices are for ethers packed in winches- rs: in carboys or drums prices are 1½d. er lb. less.

HEXOBARBITONE.—Quotations are in the region of 77s. per lb.

ICHTHAMMOL.—Prices are from 3s. 8d. to 4s. 6d. per lb., according to quantity.

IODOPHTHALEIN. — Quotations are from 52s. 6d. to 60s. per lb., as to quantity.

ISOPROPYL ALCOHOL. — Makers quote 15s. 3d. per gall. for small lots.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets. 28 lb. to 1 cwt., 3s. 5d. (1-lb); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 3s. 1d. (28-lb.) per lb. Larger quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb packages, carriage paid.

MERCURY SALTS. — Prices for the home trade are unchanged: AMMONIUM CHLORIDE, B.P., powder, from 8s. 2d. (1-cwt. lots) to 8s. 10d. (7-lb.) per lb.; lump, 8s. to 8s. 8d. BICHLORIDE, B.P., powder, 6s. 9d. to 7s. 5d. per lb.; lump, 7s. 3d. to 7s. 11d. CALOMEL, B.P., 8s. 2d. to 8s. 10d. per lb. RED OXIDE, B.P.C., and YELLOW OXIDE, B.P., from 8s. 8d. to 9s. 4d. per lb.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt. in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

METOL.—Steady. Prices per lb. are: 10 cwt., 19s.; 5 cwt., 19s. 6d.; 1 cwt., 20s.; 28 lb., 21s.; 14 lb., 23s.; 7 lb., 24s. Carriage paid in the United Kingdom.

OXALIC ACID.—Prices are steady at about 133s. to 140s. 6d. per cwt., in 1-cwt. kegs. In 5-cwt. casks prices are about 5s. per cwt. less.

PANCREATIN.—Price of B.P. material is from 13s. 6d. to 16s. 6d. per lb., according to quantity.

PARALDEHYDE. — Quotations for B.P. material are unchanged as follows:— 5 carboys, 1s. 6d. per lb.; 1 carboy, 1s. 7d.: in winchesters, from 1s. 8½d. to 2s. 0½d. per lb.

RESORCIN.—Current prices range from 11s. to 11s. 6d. per lb.; MONOACETATE is from 14s. 6d. to 17s. 6d. per lb., according to quality.

SULPHOCARBOLATES. — Prices of SODIUM or ZINC salts, crystal and powder, are 5s. per lb. for 1-cwt. lots and 5s. 3d. for 28-lb.

SULPHONAL.—A steady inquiry. Makers quote 44s. to 53s. per lb., as to quantity.

TANNIC ACID. — Current quotations for B.P., levis, ex ether, are from 8s. 6d. per lb.

TARTARIC ACID, B.P. — British makers' current scales are:— 10 cwt. and over, 170s.; 5-9 cwt., 172s.; 2-4 cwt., 174s.; 1 cwt., 176s. per cwt., delivered.

ZINC OXIDE.—A reversal of the recent advance of £2 6s. 6d. per ton reported. B.P. is £74 10s. per ton in 2-ton lots; red seal, £63 10s.; green seal, £65; white seal £66, delivered in U.K.

Crude Drugs

ACONITE.—Indian, on the spot, quoted at 275s. per cwt.; *napellus*, 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Kobé strip from 13s. 6d. to 15s. per lb., according to quality. South African powder, in tins in cases, 18s. 3d. per lb., spot. No licences to import being issued.

ALOES.—Quiet. Prime Cape quoted at from 112s. 6d. to 115s. per cwt., spot.; shipment, 102s., c.i.f. Curaçao is available at 175s. per cwt., spot, and Socotrine at 170s.

BALSAMS.—Canada on spot, maintained at 15s. 6d. per lb. Parà *Copaiba*, B.P., 5s. 9d. per lb., spot. San Salvador *Peru*, sellers at 4s. 6d. per lb., duty paid. *Tolu* is quoted at 8s. 6d. per lb., spot; shipment, 7s. 9d., c.i.f.

BELLADONNA. — Jugo-Slav root, 3s. 9d. to 4s. per lb., duty paid, as to test; Jugo-Slav leaves (B.P.), 4s. 2d., duty paid. English leaves at about 5s. per lb., as to test.

BENZOIN.—Business slow. Sumatra good almondy block, spot, from £17 10s. to £18 per cwt.; shipment, £17, c.i.f. Siam block (small almonds), £118, c.i.f.

BISMUTH.—Metal is quoted at 10s. per lb., net, in minimum 5-cwt. lots.

BUCHU. — Values steady, business quiet. New-crop short rounds, spot, 3s. 7d. to 3s. 9d. per lb., as to quality; forward, 3s. 3d. to 3s. 5d. per lb., c.i.f.

CASCARA SAGRADA. — New-crop material is coming down in price; parcels afloat are quoted at from 165s. per cwt., c.i.f., duty paid. In the spot market supplies of 1947 and 1948 peel are negligible. 1946 peel is offered at 180s. per cwt., duty paid.

CLOVES.—Quiet.— Zanzibar is fractionally easier; spot offers are at 1s. 3d. per lb., and September-October shipment is 1s. 2d. per lb., c.i.f. Madagascar is quoted at 1s. 2d. per lb., spot; September-October shipment, 1s 1d., c.i.f., nominal

COD-LIVER OIL.—In returnable drums, medicinal oil (B.P.) is from 11s. to 12s. per gall., according to quantity; veterinary grade is 1s. per gall. less than B.P.

COLCHICUM. — Corms on spot offered at 5s. to 6s. per lb., as to test; seeds, 13s. per lb., duty paid, and forward, 10s. 6d., c.i.f.

DIGITALIS — English leaves, from 2s. 3d. per lb.; powder, B.P., 5s. 9d.

ERGOT.—Portuguese reconditioned material has been offering on the spot at 22s. 6d. per lb., and a parcel of inferior quality is available at 20s. Material guaranteed sound is offered from origin at 21s., c.i.f.; afloat, quoted at 21s. 6d., c.i.f.

GALLS.—Steady. Persian blues quoted on spot at 260s. per cwt.

GAMBOGE.—Siam pipe is offered at £45 per cwt., duty paid; powder, 11s. per lb.

GENTIAN.—French natural is movin quietly at about 67s. 6d. to 70s. per cwt spot.

GINGER.—African on the spot is firml held at 255s. per cwt. Prices of Jamaica on the spot are again higher: No. 1 i quoted at 257s. 6d. per cwt.; No. 2 252s. 6d.; No. 3, 250s.

GUM ACACIA.—Firm. Kordofan cleane sorts, spot, quoted at 70s. per cwt.; Sep tember-October shipment, 66s. per cwt c.i.f. Bleached No. 1 is offered at 130s. pe cwt., spot. Talha, 47s. per cwt., spot to arrive, 40s. c.i.f.

IPECACUANHA. — No offers of Brazilia root from source. A parcel afloat of Colom bian is offering at 24s. per lb., lande terms. No Nicaraguan available.

LIQUORICE.—Anatolian natural roo from 38s. to 45s. per cwt.; in cut length 57s. to 60s.; Russian, from 47s. 10 Italian block 160s. per cwt.; stick fro 240s. to 475s., according to grade. Turkis block is from 135s. to 189s. per cwt.; stic 250s. British block is quoted at 195s. pe cwt.

MACE.—West Indian blade is availabl at 6s. per lb. on the spot; prices of picking are from 2s. to 4s. 6d., as to quality.

MALE FERN.—Jugo-Slav root quoted a 60s. per cwt., duty paid; in bond, 56s.

MENTHOL.—Quiet. Brazilian is steady a 65s. to 66s. per lb., spot, duty paid; i bond, 62s. 6d. September-October ship ment, 62s. per lb., c.i.f., quoted.

MERCURY.—Ex warehouse, £18 10s. pe flask; shipment, £17 17s. 6d., c.i.f., U.K.

MYRRH.—Aden sorts, spot, offered at £1 per cwt., siftings are at £6 10s. to £7.

NUTMEGS. — West Indian 80's, quote 2s. 8d., on spot; shipment, 2s. 2½d. per lb. c.i.f.; sound assorted, 2s. 1d. spot, worm and broken, 1s. 5d. per lb.

NUX VOMICA. — Cochin is offered fron 36s. to 37s. 6d. per cwt., spot; 29s. to 30s. c.i.f. Madras for shipment, 27s. per cwt. c.i.f. Cocanada, 35s. per cwt., spot.

OLIBANUM.—Market remains dull. Fai drop is quoted at 150s., peas at 190s., fai garblings, 125s., and siftings at 80s. pe cwt.

RHUBARB. — Chinese common round is offered from Hong Kong at 6s. 2d., c.i.f. A parcel afloat is quoted at 6s. 6d., c.i.f Little available on the spot; sound root o good fracture would be worth 6s. 6d. pe lb., duty paid.

SENNA.—Tinnevelly leaves, spot, No. 1 from 9½d. to 11d. per lb.; No. 2, 7½d. t 8d.; No. 3s, 6d. per lb.; Tinnevelly pods hand-picked, 9d. to 1s. 5d.; manufacturing 5d. to 6d. Alexandrian pods, hand-picked spot, from 4s. 9d. to 5s. 9d. per lb. nominal; medium grades are 3s. to 4s.

SEEDS.—Market for ANISE is unchanged. prus, 150s.. per cwt., duty free; rkish, 140s. per cwt., in bond, both t London. CARAWAY.—Dutch is again ier. Sellers offering at 97s. 6d. per t., duty paid, spot London. CELERY.—lian is steady at 1s. 2d. per lb., spot ndon; French, 1s. 3d. per lb., duty paid, w landing in London. CORIANDER.—rket continues firm. Morocco, spot Lon-n, is nominally 67s. 6d. per cwt., duty id. Reports from Morocco confirm that stocks have more or less been cleared s. to 60s. per cwt., c.i.f. U.K., quoted. gentine, whole seed, is quoted at 45s. cwt., duty paid, in London; Splits, s. 6d. CUMIN.—Cyprus remains firm at 7s. 6d. per cwt., c.i.f. London, and 155s. quoted on spot. Morocco, for shipment, 112s. 6d. per cwt., c.i.f.; spot Liverpool, 0s. per cwt., in bond, or 145s., duty paid. parcel of Indian in Liverpool is offered 140s. per cwt., but no business reported. LL.—Indian, spot London, is 55s. per t. FENNEL.—Indian remains unchanged 67s. 6d. to 70s. per cwt., according to ality, spot London. FENUGREEK.—Little erest shown. Indian, 57s. 6d. per cwt., t London; Morocco, 55s. per cwt., duty id, spot London or Liverpool.

SENEGA.—Firmer. Spot offers are from 3d. to 7s. 6d. per lb., with only small pplies available. Shipment prices have en to 7s., c.i.f.

SHELLAC.—F.O.T.N., pure, is quoted at 0s. per cwt.; F.O. Standard 1, 330s.; e orange, 350s. to 400s., spot London.

SQUILL.—Italian fair white on spot is ering at about 52s. 6d. per lb.

TRAGACANTH.—Market firm. Selected ite ribbon, spot, is quoted at £90 per t,; other white grades, from £40 to 0; pale leaf, £33 to £35; amber flake, 0 to £25; red, £12; hoggy, about £5 to per cwt.

VALERIAN.—Belgian natural is offering 162s. 6d. per cwt., spot; cut and cleaned, 0s., duty paid.

WAXES.—Business has been small with yers not prepared to pay higher prices. ES'—Dar-es-Salaam, 335s. per cwt., t; shipment, 320s., c.i.f. Sudanese, 5s., in bond; for shipment, 280s., c.i.f. ndi, 330s. per cwt., spot; shipment, 7s. 6d., c.i.f. Benguela, 305s. per cwt., bond, and 325s., duty paid. CANDELILLA. Quoted 320s. per cwt., spot; forward livery, 310s., landed terms. CARNAUBA.—ime yellow continues at 685s. per cwt., t; shipment, 660s., c.i.f. Fatty grey dearer at 500s. per cwt., for shipment, 0s., c.i.f. MONTAN.—Reibeck is steady 180s. per cwt., spot; shipment, 150s., .f. OURICURI.—99.5 per cent. pure is mer at 455s. per cwt., spot; for ship-ent, 460s., c.i.f. SPERMACETI.—Quoted 2s. 5d. per lb., spot.

Essential and Expressed Oils

ALMOND.—English-expressed sweet oil (B.P.) is offered at from 4s. 6d. to 5s. 6d. per lb.; Spanish is available at from 3s. 6d. to 4s. 6d. Bitter, on the spot, is quoted at from 27s. 6d. to 60s. per lb., as to grade.

ANISE.—Firmer. Dealers are now asking 7s. 9d. per lb. for Chinese star in drums, and 8s. in tins in cases. Shipment offers are at 7s. 9d. per lb., c.i.f., for drums.

CASTOR.—Basic price of pharmaceutical quality is now £104 per ton, naked, ex mill.

CITRONELLA.—The market has eased slightly. Ceylon on the spot is offered at upwards from 5s. 3d. per lb., while Java is offered at from 10s. 6d. per lb.; at origin the latter is quoted for shipment at 9s. 9d., c.i.f.

CLOVE.—Steady. English-distilled bud oil is from 10s. 9d. to 11s. 6d. per lb., according to quantity; imported oil is offered at from 5s. 6d. to 7s.

EUCALYPTUS.— Firm. Spot quotations for 70-75 per cent. (B.P.) are from 3s. 6d. to 3s. 9d. per lb. for drums, as to seller.

FENNEL.—Quiet. Sweet oil quoted from 18s. per lb., spot.

GERANIUM.—Bourbon on spot is quoted at 62s. to 65s. per lb. Supplies are short.

LAVANDIN.—Dealers are asking from 7s. to 8s. per lb., as to quantity.

LAVENDER.—Market firmer. French, 38-40 per cent., on spot is quoted at from 16s. 6d. per lb. upwards; 40-42 per cent., 18s. Spanish spike is offered at from 7s. 9d. to 8s.

LEMONGRASS.—A firmer market. Spot values have risen to 10s. per lb. and upwards; shipment, 9s. 9d., c.i.f.

PATCHOULI.—Firm. Singapore is difficult to find on the spot and is valued at 55s. per lb.

PENNYROYAL—Spanish oil (B.P.) on the spot is at from 15s. 6d. to 17s. per lb.

ROSEMARY.—Spanish on spot is offered at 6s. to 7s. 6d. per lb., as to quantity.

TEASEED. — Spot quotations for refined oil are at 22s. per gall.; October, 21s. 6d.

THYME. — Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 6s. 6d. to 8s. per lb., according to quantity.

UNREFINED VEGETABLE OILS.—Reduced prices are announced for the period of four weeks ending October 1, as follows:—LINSEED, £126; LINSEED FOOTS, £76; CASTOR, firsts, £98, and seconds, £91; RAPESEED, Chinese, £130, and from other sources, £140. Prices are per ton, naked, ex works.

TRADE MARKS

(From the "Trade Marks Journal," August 31).

For all goods (3).—"ECLAT"; by Colgate-Palmolive-Peet, Ltd., London, W.C.2; 665,317. "BRISE DE MAI"; by Pinaud, Ltd., London, S.W.12; 667,728. "TRIMACAR"; by Trimite, Ltd., Greenford; 677,142.

For all goods excluding toilet articles (3).—"THAWPIT" and "THORPIN"; by Thawpit, Ltd., London, W.12; 666,572 and 668,957.

For cosmetic powder cases (3).—"LADY BIRD" and device of lady bird; by Anglo Fancy Products, Ltd., London, N.W.6; 671,750.

For toilet preparations (3).—"DANALAK"; by Financiera de Perfumeria S.A., Panama; 674,918. "LELANTA" and pictorial landscape; by the West of England Perfumery Co., St. Ives; 676,955 and 677,060.

For hair preparations (3).—"PITUKA"; by H. S. Walker & Co., Ltd., London, W.8; 677,310. "VASELINE HAIR TONIC" on label device; by Chesebrough Manufacturing Co., Consolidated, New York; 678,362-65.

For tooth-paste (3).—"BANTAM" and device of bantam; by Dentomint, Ltd., London, N.W.8; 677,554.

For insecticides (5).—"CARTREF SWOOSH" on label device; by Cartref Supplies, Ltd., Swansea; 661,620.

For medicated tooth-picks (5).—"INTERDENS"; by J. L. Brown & Co., Victoria, Australia; 667,259.

For infants', invalids' and dietetic foods (5).—"HEINZ"; by H. J. Heinz Co., Ltd., London, N.W.10; 670,964. "NESS"; by Nestlé's Milk Products, Ltd., London, E.C.3; B671,772.

For pharmaceutical preparations (5).—"CITROVEL"; by Vitamins, Ltd., London, W.6; 671,947. "ANTI-NIK"; by Hough, Hoseason & Co., Ltd., Manchester; 675,846. "DE WITT'S VAPENETRANT" in distinctive lettering; by E. C. de Witt & Co., Ltd., Croydon; 676,720. "BROMO-SALOSED"; by Wade Pharmaceuticals, Ltd., Bishopbriggs; 676,875. "CYMOGRAN" and "INOTERIN"; by Allen & Hanburys, Ltd., London, E.2; 677,285 and 677,287. "CUPRIMYL"; by May & Baker, Ltd., Dagenham; 677,956.

For pharmaceutical preparations, infants' and invalids' foods (5).—"RONICOL"; by Roche Products, Ltd., Welw Garden City; 673,500.

For weed-killing preparations (5). "WEEDISOL"; by Barclay & Co. (Liv pool), Ltd., Liverpool; B673,802.

For water-sterilising compounds; sur cal dressings and fitted first-aid outfits (—"TABLOID"; by the Wellcome Found tion, Ltd., London, N.W.1; 674,848.

For disinfectants, deodorisers, and oi ments for veterinary purposes (5).—"CA FOSA"; by Frank Jackson, Aucklan 675,251.

For medicated bandages (5).—"AC BAND"; by Wade Pharmaceuticals, Lt Bishopbriggs; 676,658.

COMING EVENTS

Monday, September 19

CHEMIST'S EXHIBITION, Central Hall, Westminst London, S.W.1 (exhibition continues until F day, September 23, opening daily at 11 a.m closing Monday and Tuesday at 8 p.m., Wedn day and Thursday at 9 p.m., and Friday 7 p.m.).

Tuesday, September 20

WALTHAMSTOW BRANCH, NATIONAL PHARMACEUTIC UNION, Conway Hall, High Street, Walthamsto London, E.17, at 8 p.m. Mr. Ernest Sku M.P.S. (Member of the N.P.U. Executive), "Whither Pharmacy?"

Wednesday, September 21

SCOTTISH CHEMISTS' BOWLING ASSOCIATION, La bert Green, at 10.30 a.m. Entry forms fro Mr. J. E. Budge, M.P.S., 65 Granton Roa Edinburgh, 5.

Thursday, September 22

LONDON CHEMISTS' GOLFING SOCIETY. Fixture Sandy Lodge. (Telephone: Northwood 129).

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Mi Essex Technical College, Market Street, Chelm ford, at 7.30 p.m. Film show "Medical Applic tions of Sulphonamides."

Friday, September 23

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, boar room, Upton Hospital, Slough, at 8 p.m. Ac dress by Mr. H. Linstead, O.B.E., Ph.C., M.P

EAST METROPOLITAN BRANCH, PHARMACEUTICA SOCIETY, Angel Hotel, High Road, Ilford, a 8 p.m. Film show, "Medical Applications o Sulphonamides" and lecture, by Mr. D. G Ardley, M.P.S.

ASSOCIATION OF BRITISH CHEMICAL MANUFAC TURERS, Royal Hotel, Scarborough, October 7-9 Conference on safety in chemical works. Fo details see *C. & D.*, September 10, p. 330.

NORTH LONDON PHARMACEUTICAL ASSOCIATION A meeting to inaugurate a local division in Tot tenham and Edmonton is being held at the Red Lion, 636 High Road, Tottenham, N.7, at 7.30 p.m., on October 4. Particulars from the con venor, Mr. G. F. Weiss, 180 Philip Lane, N.15 (Telephone: Tottenham 1936).

"I received thine intimating thy prospect of a visit to Pontefract. I should like to know in whose company thou art to go and how thy master is to do without thee; if he can spare thee and thou canst perform the journey agreeably and without an imprudent expenditure I shall not object to it."

Luke Howard received many such letters as this from his father while serving his apprenticeship to a Stockport chemist. Good counsel and advice on business duties and responsibilities are not always easily acceptable; but Luke, who started the firm of Howards in 1797, at the age of 25, laid a foundation for careful manufacture which still distinguishes all the fine chemicals which bear Howards' name today.

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The
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against
GRAM-NEGATIVE ORGANISMS

PHENOXETOL
P.E.E.G.
NIPA

This important bactericide and antiseptic is a colourless viscous liquid with a faint pleasant odour, for use in medical treatment and for pharmaceutical preparations. Phenoxetol is especially effective against certain gram-negative organisms, including Ps. pyocyanea. It is used by local application—by wet dressing, instillation or irrigation—in the treatment of infected wounds, abscesses, indolent ulcers, associated with Ps. pyocyanea. It should not be used for parenteral injection.

Phenoxetol is very effective in pyocyanea infections of burns or superficial wounds. It is especially useful for skin grafting, in dermatitis associated with Ps. pyocyanea, and for the sterilization of tuberculosis cavities infected with Ps. pyocyanea.

In addition to its anti-pyocyanea activity, Phenoxetol is an excellent preservative for penicillin creams and other pharmaceutical and medicinal preparations. Not only does it protect the creams from deterioration caused by various organisms such as mould and fungi, but it also prevents the inactivation of penicillin itself by inhibiting the growth of B. coli and other penicillinase producing organisms.

The following formula is successfully applied for Penicillin Cream:—

Lanette wax SX	3.5 g.
Liquid Paraffin	15 ml.
Penicillin Solution	5 ml.
Phenoxetol	2 ml.
Aqua redest	ad. 100 ml.

also

Para-Chloro-Phenoxetol, the antifungous compound specifically active in ointments, powders and solutions against infections by Trichophyton-Epidermophyton - Microsporum and Monilia organisms.

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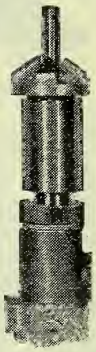

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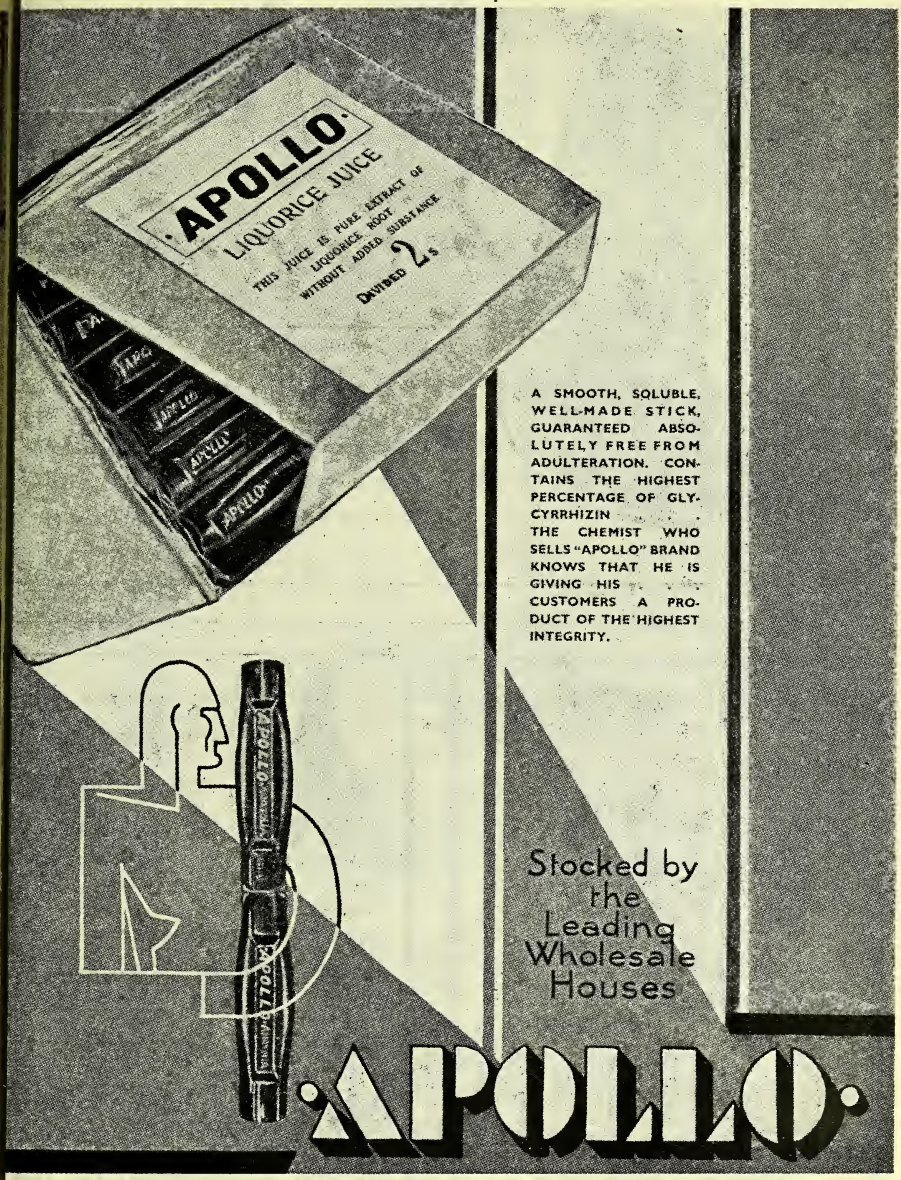

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Telephone: Perivale 9121 (four lines)

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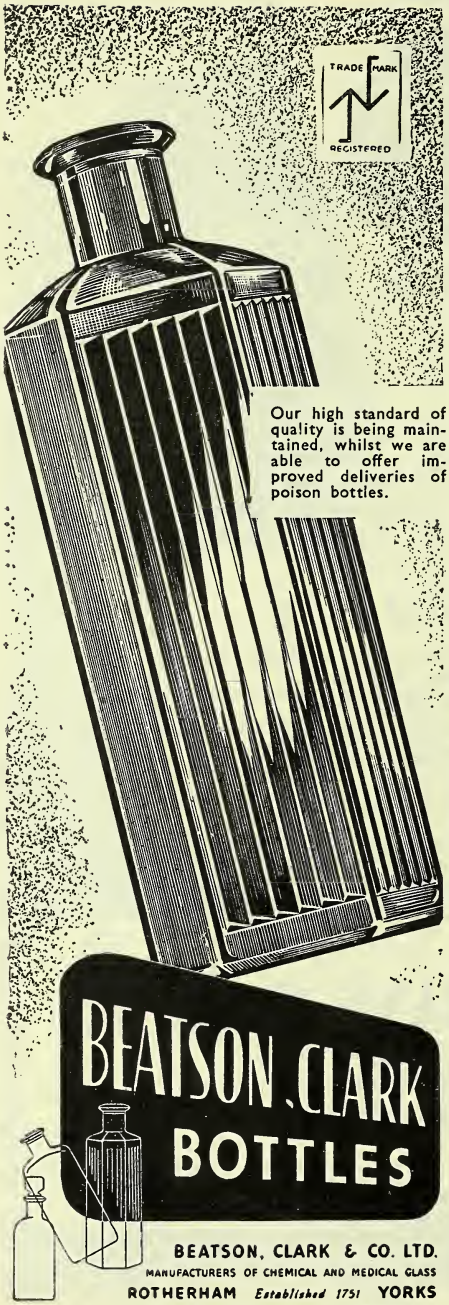

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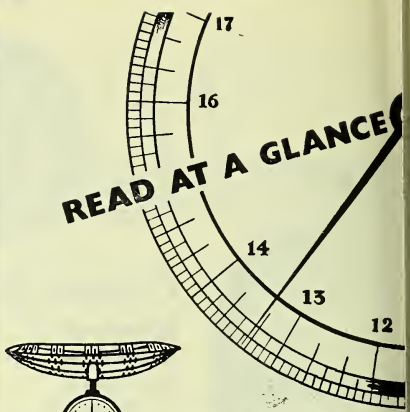

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A Boon to every house wife. Supplied (Perforated) in rolls.
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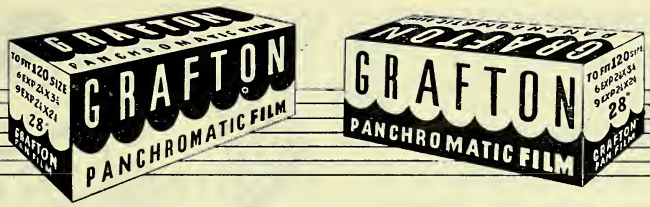

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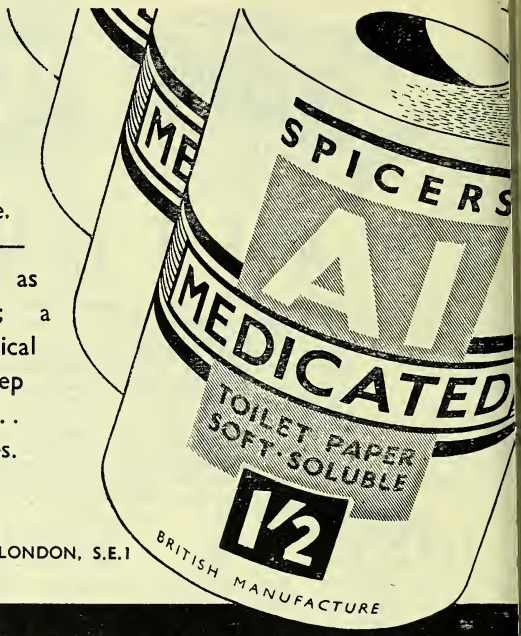
There's no mystery about a line that "goes well." Even in buying routine products, shoppers have an eye for value. And they find it in Spicers A1—a fine, soft tissue, medicated as doctors would recommend; a generous-sized roll; a practical price. In short, a line to keep your turnover turning briskly! . . . See your wholesaler for supplies.



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STAINLESS STEELWARE

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Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

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SOFT GAUZE COVERING WITH LOOPS

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Glycerine	7 galls.
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A bland dressing incorporating antiseptics of proved low toxicity in a sterilised glyco-gelatin base, which provides marked healing and coagulating properties.

By seepage into the wound and diffusion over the adjacent skin surfaces, the medicament rapidly inhibits Gram-Positive organisms, in particular Staph. Aureus, Strep. Haemolyticus, Strep. Viridans and also B. Pyocyaneus.

CIMLAC GAUZE will remain moist and non-adherent and easy removal is secured without danger of rupture to the delicate epithelium and granulative tissue.

For use as a general dressing for Burns, Accidental and Operational Wounds, Boils, Carbuncles, Varicose Ulcers, Trophic Ulcers, Bed Sores, and as a post-operative dressing in rectal operations and the preparation of tissue surfaces for skin grafts.

Formula: 5 - Amino - Acridine 0.1% : Hexylresorcinol 0.1% : in a sterilised glyco-gelatin base.

Packed to facilitate non-touch technique in boxes of 24 pieces 4′ × 3½″.

Price 6/6d. *per box. Medical discount* 10%. *Price to Hospitals* 5/- *per box. Exempt Purchase Tax. Carriage Paid Home on orders over £2 in value.*

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Profit-Making

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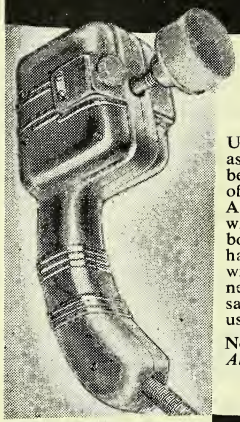

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Universally acknowledged as an aid to health and beauty and for alleviation of pain in many ailments. A high-grade Pifco product with smart ivory plastic body and finely balanced handgrip. Packed in carton, with Applicators for face, neck, body and scalp massage, and instructions for use.

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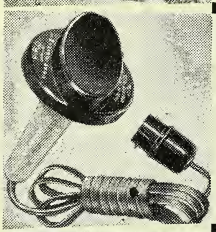

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A quick-selling, high-quality line at a popular price. Combines the soothing and healing properties of heat with stimulation of massage. Modern design in black and ivory plastic.

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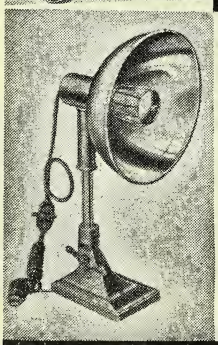

RADIANT-HEAT & INFRA-RED APPLIANCE

For application of Infra-Red and Radiant-Heat as used and recommended by the medical profession, for quick relief from pain in many ailments. Reflector revolves to any required direction. Adjustable base. Finished in pastel shade, crackle finish.

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Reap the benefit from this advertising by getting in a stock of SILVER SILK at once.

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Also makers of:— Everest, Med-O-San, Captis and Tartan Brand Toilet Rolls

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The Superior Vacuum Flask with the Quality Finish

★ Modern design, strongly made, with a quality finish.

★ Fitted with a tested refill of *extra high thermal efficiency.* Hot or cold liquids retain their temperature for unusually long periods.

★ Canister made of stout gauge steel, tinned to resist corrosion. Finished in durable enamel in a range of attractive colours. The shoulder is made of highly polished aluminium.

★ Large plastic cup of pleasing shape supplied in pastel colours.

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WILFRED STRETCH & Co.
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HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR
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Supplies may be obtained from C.F. Wholesale Houses

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De luxe finish, combined double-layer "crêpe" and velour surface

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Patent double-layer "crêpe" surface

HIGH GRADE HOT-WATER BOTTLES

Made of pure seamless Rubber Latex, Veedip hot-water bottles have unique thermal properties: boiling water may be used: they never become too hot to be placed against the skin and they retain heat longer than other types of hot-water bottle.

All Veedip hot-water bottles are supplied in a range of pleasing colours, packed in attractive cellophane containers.

VEEDIP LIMITED

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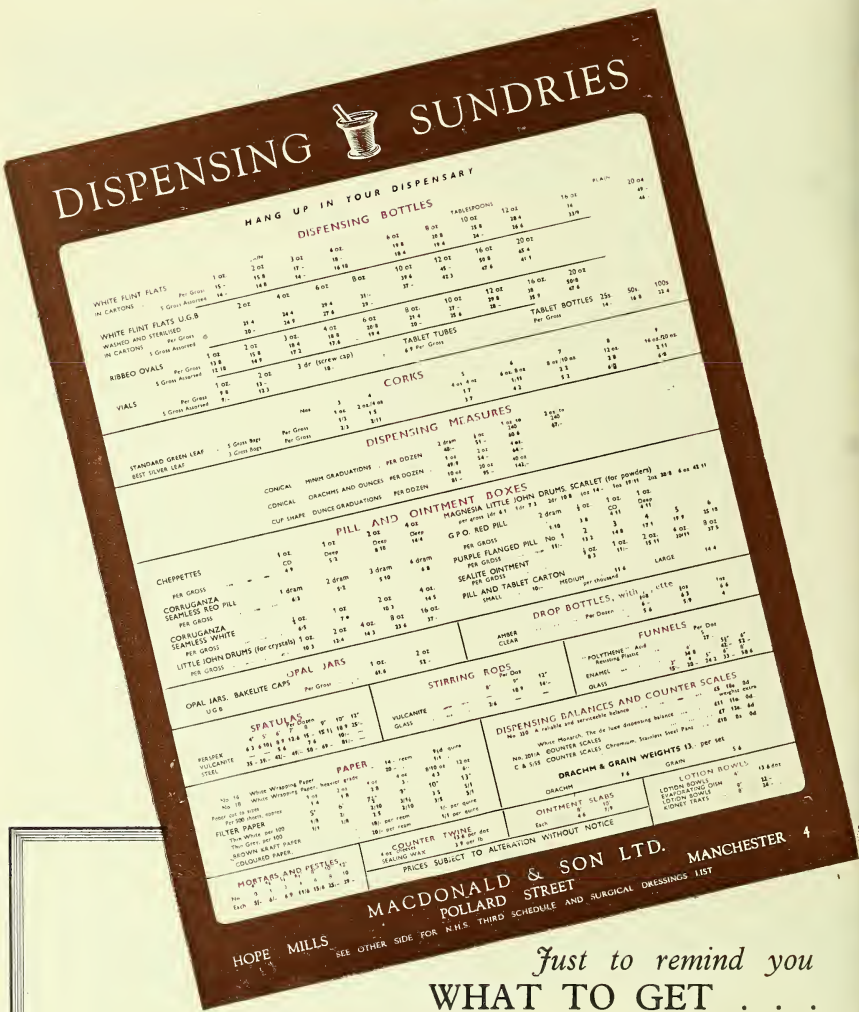

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WHAT TO GET . . .

. . . the price . . . the size . . . in fact all those details which you cannot always remember.

The dispensing sundries card, shown above in reduced size, printed in colour on stiff board, gives you this information when you need it and where you need it.

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WHOLESALE ONLY
MANDELLE
Caps
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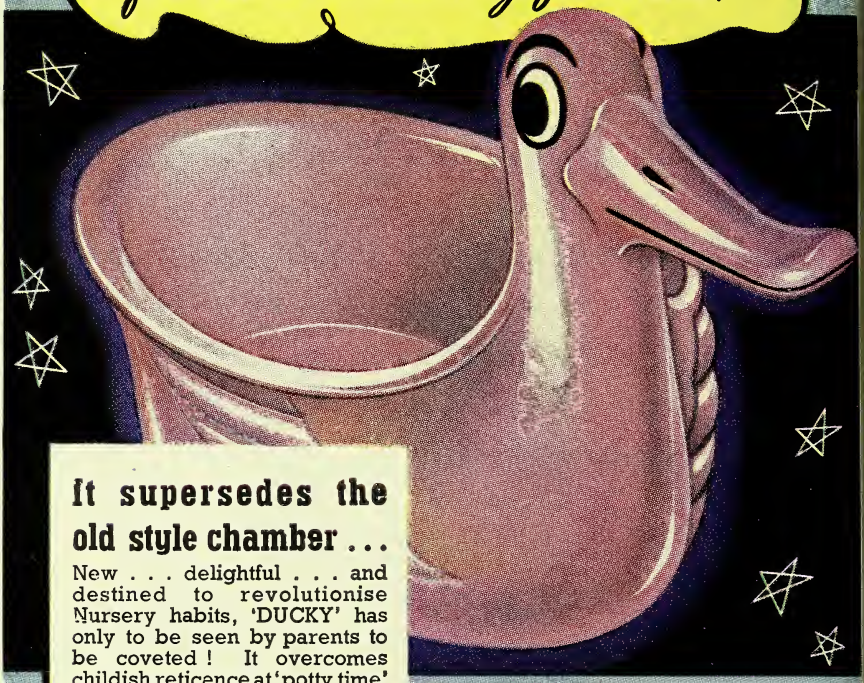
BATHING CAPS

"DUCKY"
is just what you are seeking
for the Christmas Gift trade!



It supersedes the old style chamber . . .

New . . . delightful . . . and destined to revolutionise Nursery habits, 'DUCKY' has only to be seen by parents to be coveted ! It overcomes childish reticence at 'potty time' and is the answer to a major problem. Made from smooth Akenite plastic in delightful new shades of Blue, Pink, etc.

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Give it prominence in your
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MAKES CHILDISH DUTIES FUN!

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Use U·M·P COLLAPSIBLE METAL TUBES

and fill them by the U·M·P COLLAPSIBLE TUBE FILLING UNIT

This unit consists of Tube Filling Machine, Tube Closing Machine and Tube Crimping Machine. Please write for particulars and descriptive leaflet.

We are also moulders of PLASTICS to the Trade by injection and compression methods

U·M·P

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UNIVERSAL METAL PRODUCTS LTD.

SALFORD 6 LANCS. *Telephone:* PENDLETON 1631-2-3

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A JEYES' PRODUCT
LARGE 6-OZ. BOTTLE
1/-

GERMICIDE AND DISINFECTANT

JEYES' SANITARY COMPOUNDS CO. LIMITED, MILLBROOK, CHIGWELL, ESS

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CORKS, STOPPERS, ETC.

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Victory·V
GUMS & LOZENGES
FRYER & CO. (Nelson) Ltd., NELSON, LANCS.

BRITISH MADE **AMPOULE FILES**
are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

DOMINION STEEL CORPORATION LTD.
"FLEET" WORKS
QUEEN'S ROAD, SHEFFIELD, 2

Fennings'

FAMOUS FOR OVER 90 YEARS

CHILDREN'S POWDERS
and in Show Packs of 100's and 240's Also in Adult Strength. 1/6 and 3/6

LITTLE HEALERS
For Coughs, Colds, Bronchitis, etc. .. 1/6 and 3/6
Also 7/- per Carton of 12 Packets, retailing at .. .. 7d. each.

★ *Please address orders and enquiries to your Wholesaler, or, if in difficulty, write :—*

FEVER MIXTURE
per bottle 1/6

WHOOPING COUGH MIXTURE
And for other Coughs too. per bottle 1/6

RHEUMATIC TABLETS
Widely advertised and always a ready "seller". 2/6

ALFRED FENNINGS, HORSHAM, SUSSEX

It's FERBER'S *for* CAPSULES

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Complete Catalogue of Perfumery and Toilet Preparations sent on request

All products obtainable from your usual wholesaler or direct from

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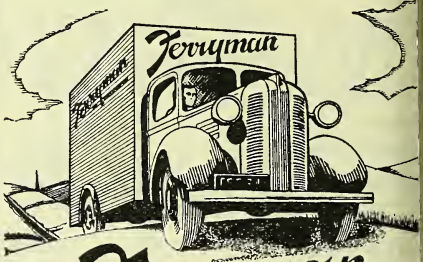

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Making a host of friends

RESTRICTED EXCLUSIVELY TO CHEMISTS

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RETAIL PRICE - per bot. 2/9
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And a quality you can confidently recommend. The smart pack makes a most attractive display.
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sooner or later is troubled with
HAIR ON THE FACE
An intensive advertising scheme is telling them how to remove it safely and easily with
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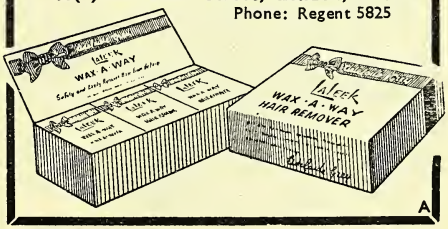


A

BEECHAM GROUP

INCREASED EXPORTS

The 21st annual general meeting of the Beecham Group, Ltd., was held on Sept. 9, in London, Sir J. Stanley Holmes, M.P., the chairman, presiding.

The following is an extract from his circulated statement:

The trading profits and sundry revenue of the Beecham Group for the year ended March 31, 1949, amounted to £1,905,194, compared with £2,370,181 for the previous year, and after writing off cost of destruction or disposal of war-time stocks and providing for all charges, including Preference dividends and taxation, there is a net surplus available for the Deferred shares of £496,098, of which £299,475 has been distributed in dividends at the rate of 36 per cent. (less tax), and the remainder carried forward in the accounts or placed to reserves. The directors have decided not to recommend the payment of a final dividend on the Deferred shares.

The total home sales of the group for the year show a decrease of under 1 per cent. compared with those for last year, and if we discount the increase of 1947-48 in the price of tobacco handled by our wholesale grocery distributing companies, our sales, on a comparable basis, actually showed an increase of 2 per cent., which may be considered satisfactory. Sales of food products showed an increase of 7 per cent., but the margin of profit shows the lowest return of any section.

The sales of medicinal products showed a fall compared with last year of 10 per cent., while sales of toilet products showed a reduction of 7½ per cent. Since April 6 orders received for both medicinal and toilet products have shown a substantial increase.

RISE IN COSTS

In addition to the slight decline in sales which contributed to the reduction in our home trading profits, a still greater factor was the continuing rise in costs of all descriptions. Wage rates again increased during the year throughout all sections of the business, while costs of items such as raw materials, containers, railway carriage and fuel and power, all rose to an alarming extent.

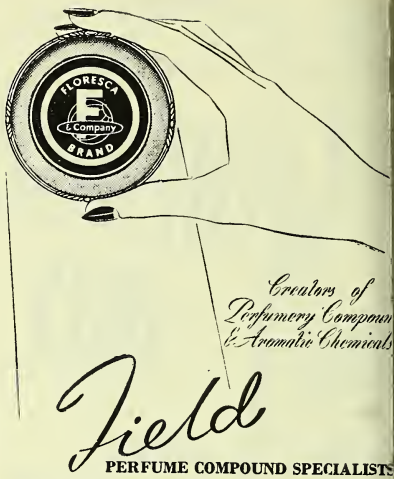
I am pleased to be able to report an increase of over £550,000 in the group's export and overseas sales which, bearing in mind the difficult international trading situation, your directors consider most satisfactory. Unfortunately, rising costs and, in some instances, the necessity of reducing prices to meet intense competition, prevented us from doing more than maintain profits at about the previous years' level.

The burden of taxation continues to weigh heavily on the group and its finances. This year the total charge for United Kingdom taxation in the company's accounts amounts to £924,769 compared with £1,157,366 for the previous year.

The company has acquired through its subsidiary, County Perfumery Co., Ltd., the whole of the share capital of Silvikrin Laboratories, Ltd.

I do not wish to strike too optimistic a note but I am confident that bearing in mind the steps which have already been taken, and the further plans which have yet to be intimated there is every reason to hope for substantial progress by the group in the future.

The report was adopted.



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PERFUME COMPOUND SPECIALISTS

FIELD & CO. (Aromatics) LTD. MOUNT PLEASAN

ALPERTON, WEMBLEY, MDX.

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An Ideal IFT LINE!

d the "Allure" Perfume Hairbrush is eavy and sustained advertising at home broad which for years has been build- p to the present time when we can all your orders.

"Allure" Perfume Hairbrush is tised by Showcards on all London rground trains on which 650,000,000 ngers travel yearly.

these brushes prominent display and s show one brush apart as this calls tion to the fact that it is not an ary brush.

ACTIVE ADVERTISEMENTS APPEAR ULARLY in the NATIONAL PRESS

OWING TO IMPROVED PRODUCTION COSTS

NOW RETAIL **39/6** Inc. Pur. Tax

"Allure" Perfume Essence

Much more lasting than ordinary perfume

NEW REDUCED PRICE **4/6** RETAIL Inc. Pur. Tax

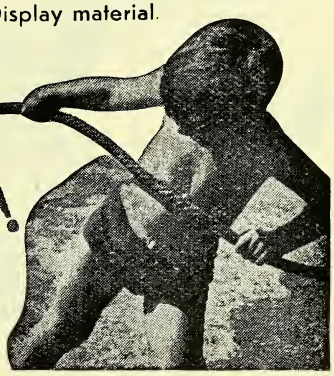
- Brush base takes out to wash
- Handleback never spoilt by water
- Absolute cleanliness at brush base.

PPOINTMENT USHMAKERS G. B. KENT & SONS LTD., 24 OLD BOND ST., LONDON, W.1
Telephone: Regent 1471/2/3. Telegrams: Tricho, Piccy, London

ere's a stronger pull in COLOUR . . .

Be sure your customers know . . . . . ***any camera*** will take Dufaycolor pictures. It's used the same way as ordinary film and is just as easy. You'll be asked for Dufaycolor again and again this summer — be ready for it! Make a prominent show of your Display material.

FAY PRODUCT



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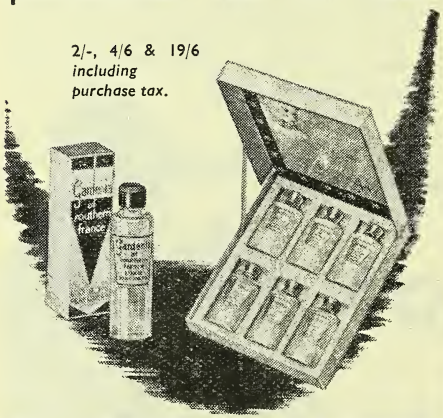
Calling all Rexall Chemists in Gt. Britain & Northern Ireland!

Gardenia of Southern France

will be our main perfume offer for pre-Christmas trade this Season

2/-, 4/6 & 19/6 *including purchase tax.*



REXALL DRUG COMPANY LTD., NOTTINGHAM

We have over e

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capsules and table

for home and overse

HOWARD LLOYD & CO. LTD. LEICESTER

Cyclo

"CYCLOCHEM"

(Trade Mark)

OWN MANUFACTURE

Original

LANETTE WAX S

All fully complying with the official standard

CERA EMULSIFICANS B.P.

Ask for New Booklet "CYCLOCHEM LANETTE WAXES"

GLYCERINE MONOSTEARATE

and many other Emulsifiers

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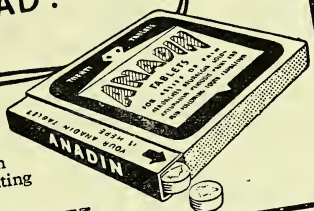
MANFIELD HOUSE, STRAND, LONDON, W.C

A date with pain?

TAKE A COUPLE OF

ANADIN Trade Mark

TABLETS INSTEAD!



They work quickly and safely because, in them, pure Aspirin is balanced with Phenacetin, Caffeine and Quinine, the products known to fortify and sustain the effects of Aspirin whilst eliminating undesirable after-effects.

FOR SAFE AND QUICK RELIEF

This advertisement is one of a series now appearing in the principal Women's Magazines and designed to increase the high level of professional acceptance for 'Anadin'.

'ANADIN' is accepted by more and more women as the ideal analgesic for periodic pains. This high regard has been earned through the professional recommendation of doctors, dentists, nurses and welfare officers. Each month many thousands of professional people are mailed and serviced with samples for distribution to patients.

'ANADIN' Tablets are available in 2 sizes — 20's in the "one-by-one" handy pack and bottles of 50. 'Anadin' can be included with other I.C.C. lines to qualify for co-operation discounts of 12½% on orders of £10 and over; 10% on orders of £5 and over.

ANADIN

PRODUCT OF THE INTERNATIONAL CHEMICAL CO., LTD., CHENIES ST., LONDON, W.C.1

THERE IS AN EVER WIDENING DEMAND
for
Luxan and Luxol
Sanitary Towels

Personal recommendation is the keynote of this success. Women everywhere appreciate the attractive make-up and reasonable price.
WIDELY ADVERTISED IN THE PUBLIC PRESS
SHOWCARDS AVAILABLE

Luxan Ltd
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At the sink
or in the swim..

the PUCK Undercap gives perfect protection.
It sells all the year through as a dust-cap, bath-cap or swim-cap, but there *is* a rush in the summer.
Be prepared for it by ordering NOW

Supplied in outers containing 4 dozen assorted (red, yellow, pale blue and white). Each cap packed in window carton to show colour

Retail Price 1/3 INC. TAX.

Puck BATH CAP SWIM CAP DUST CAP

GROVEWELL LTD
656 [Forest Road, Walthamstow, London,
Only Wholesalers Supplied

NOT STICKY
... it's *NOT* a plaster

BUT IT STICKS!
..it's *MORE* than a bandage

PRESTOBAND
THE ANTISEPTIC SELF-ADHESIVE BANDAGE STICKS TO ITSELF — BUT NOT TO THE SKIN

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FASSETT & JOHNSON LTD
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MADE BY VERNON & CO., PRESTON, LANCS

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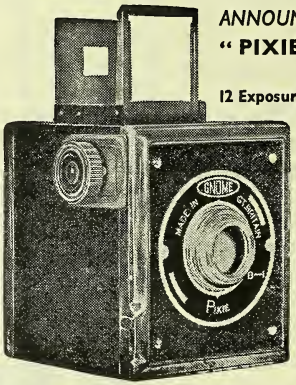

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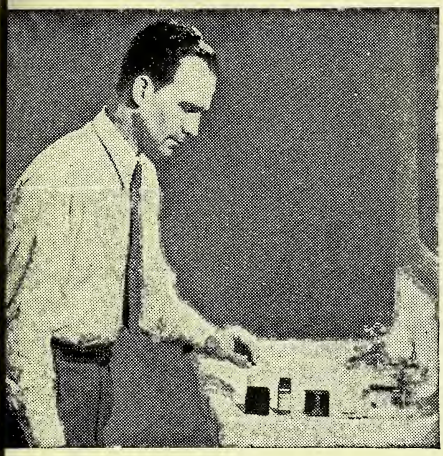


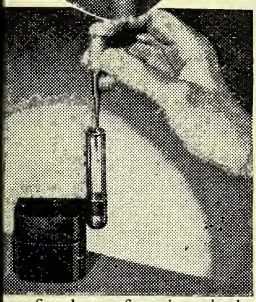
New 1-minute urine-sugar tablet test– CLINITEST

Trade Mark

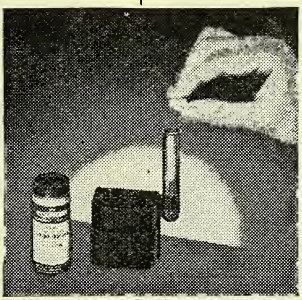
NO EXTERNAL HEATING · SIMPLE · SPEEDY · CONVENIENT · RELIABLE

Every customer for insulin and other diabetic products will be interested in Clinitest. This one-minute tablet test has the approval of the Medical Advisory Committee of the Diabetic Association. It is based on the same chemical principles as the Benedict Test, *but requires no external heating*. All reagents are compressed in a single tablet which generates its own heat.

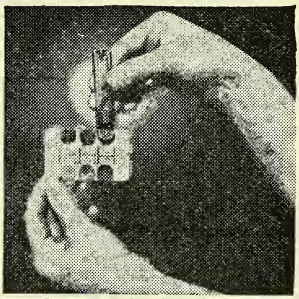
HANDY POCKET-SIZE SET
All essentials in this compact case.



ace five drops of specimen in the st tube ; add ten drops of water.



2. Drop in one Clinitest tablet; allow thirty seconds for reaction.



3. Compare with the colour scale.

Retail Prices

CLINITEST SET (complete) **12/-** **REFILL BOTTLE** (36 tablets) **4/-** Trade Discount 33⅓%

A supply of leaflets for distribution to purchasers of diabetic products will be sent with all orders.

DON S. MOMAND LTD.

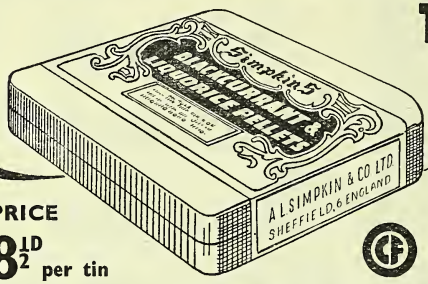
Sole Distributors for The Ames Company Inc.

57 ALBANY STREET, LONDON, N.W.1. Tel: EUS 1326

A PRODUCT OF THE AMES COMPANY INC. OF ELKHART, IND., U.S.A

II

NATIONALLY ADVERTISED TO BRING YOU SALES



PRICE
8½D per tin

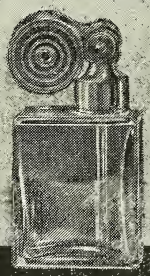
Simpkins Liquorice Pellets are popular wi everyone because they are so pleasantly effe tive, and easy to carry in the pocket handbag. Obtainable in four varieties :

Liquorice and Menthol · Blackcurrant and Liquorice · Peppermint and Liquori Compound Linseed Liquorice and Aniseed

IN MODERATE SUPPLY YOU DISPLAY—*THEY SELL THEMSELVE*

Simpkin's LIQUORICE PELLETS for HUSKY THROATS

A welcome return



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Imported from France and assembled by experts in our London Factory.

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A Large Profit Margin and Regular Clientele For You !

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Biocrin pomade shampoo

A product of Vine's Biocrin Ltd., London, W.2.

Firm Favourites!

with every member of the family . . . .

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

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TELEPHONE: HOLBORN 1564

for

THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

B18

G. O. WOODWARD & CO. LTD.

MANUFACTURING CHEMISTS

Manufacturers of

COMPRESSED MEDICINAL TABLETS

SPECIALISTS IN THE PREPARATION OF TABLETS TO CUSTOMERS OWN FORMULÆ

MODERN PLANT

PROMPT DELIVERY

QUALITY AND ACCURACY IS GUARANTEED

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A Cordial Invitation...

The Chemists' Exhibition gives
the welcome opportunity of meeti
personally many of our pharmacist frien
We have a number of points of mut
interest to talk over, and we look forwa
with pleasure to your visit to

STAND No. 53

ALKA-CIP BONOMINT, BROOKLA
G.S. TABLETS, KEPSINS, KIPA
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WESTMINSTER LABORATORIES LT

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First with make-up for the motion picture studios

First to feature cosmetics as "make-up"

First to feature Hollywood screen stars in cosmetic advertising

First with Colour Harmony Make-up

First to classify and originate the name "brownette"

First to introduce "Personalized" Christmas Gift Sets for Blondes, Brunettes, Brownettes and Redheads

First to introduce a new and utterly different cosmetic fashion — "Pan-Cake" Brand Make-up

First to introduce a new make-up for Technicolour motion pictures

First to introduce the new lipstick idea — 3 shades for each type—Clear Red, Blue Red and Rose Red

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First to originate new exclusive patented lipstick colour formula

First with the new colour tones — Amber — in "Pan-Cake" Brand make-up and Face Powder. Colour harmonized to natural skin tones.

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MAX FACTOR HOLLYWOOD & LONDON (SALES) LTD

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Bulk or Packed
THREE CROWNS TABLET COMPANY
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PHERIBAN
TONIC TABLETS
now packed in
2/- sizes 4/3 P.A.T.A.

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IF YOU HAVE RATS GIVE THEM A BISCUIT-

. : . but make sure it's a VEXTERM RAT BISCUIT, not harmful to pets, human beings or farmyard stock, but death to rats and mice. Clean, safe and easy to handle. From Chemists, Ironmongers and Stores everywhere. Price 1/6 & 5/9

VEXTERM
READY-BAITED
RAT BISCUITS
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S.T. I. SUN TAN POWDER comp
Bottles. ½ oz. powder to 2 ozs. water. Applie with wadding and gives the admired GOLDEN BROWN Skin Tint with smooth matt finish. Earl orders appreciated. 7 lbs. lots at 2/9 lb. post paid
Makes 224 x 2 oz. bottles.
CHEMICAL MNFG. LABORATORY LTD. DRAKE ROA WORKS, TAVISTOCK, DEVON (Tavistock 497

PRE-PACKING & LABELLING
(We can now accept fresh orders)
LIQUIDS: From Bulk into any size bottle from ½ oz.
POWDERS & TABLETS: Mixed and packed to customers Specifications.
J. H. WISEMAN & CO. LTD.
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OINTMENT LIFTERS
APPLICATORS supplied to the trade
Highest quality at lowest prices
MOULDINGS & SHAPES CO
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15/- per doz. boxes
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Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

SEPTEMBER 17, 1949

The Chemist & Druggist SUPPLEMENT

HEAD OFFICE: 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone : Central 6565 (10 lines) *Telegrams : "Chemicus, Estrand, London"*

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1. Antrim. Recently established business. rnover at present about £70 per week, net fit about £15 per week. Stock estimated at ,800, fittings, £400. Scope for optics and ricultural trade. Price £3,000 all in or valua- n terms.

2. South Africa. Cape Province. Genuine busi- s for immediate disposal. Increasing turn- er, present rate over £500 a month. Beauti- lv fitted pharmacy. Fixtures and fittings cost ,000. Entire English community, with excel- t educational facilities. Price required £1,500 .v. Further details upon application.

3. Tasmania. Business for sale owing to ill- lth. No opposition. Turnover this year ,000. Rent 30/- per week, no rates. Near ge city. Total purchase price about £1,350 early sale.

4. Tasmania. General retail and dispensing siness, Kodak Agency. Turnover last year ,650, net profit £1,100. Rent only 15/- per ek, including rates. Modern pharmacy. Total rchase price would be about £2,150.

5. London. Wholesale sundries and distributing business for sale owing to death of proprietor. Turnover last year £50,000. Connections London and Home Counties. Please write for details.

6. Surgical instrument business in Central London, also dealing in ligatures and dressings. Very old-established house. Turnover under management last year £17,000. Stock and plant valued at £5,250. Spacious factory with lease valued at £1,500. Share capital issued £6,446. Vendors, finding themselves unable to give the business personal attention, will accept £1 per share, which represents no sum whatsoever for goodwill. This is an excellent opportunity.

7. London. A 70 per cent. holding with complete administrative control is offered in a toilet and perfumery manufacturing business. Turnover about £7,000. Would suit young, energetic man with some sales experience. Vendor retaining a small interest. Ill-health cause of sale. Price £5,000, for most part covered by stocks and plant.

184 STRAND · LONDON · W.C.2

Telephone : TEMPLE BAR 9212/3—6340 Telegrams : Orridgchem Estrand, London

Branch Offices : **36 Cannon St., Birmingham, 2.** Phone : Midland 6547
77 High St., Shirley, Southampton. Phone : Southampton 71708

BUSINESSES FOR DISPOSAL

rds 8/6 (minimum) then 3d. per word. Box 2/-

GOW. Chemist's business and premises for old-established, in residential area, modern e of shops, main road. Capable of imme- expansion. Box 6/619.

D HOUSE and drug store. Well populated Suit dispenser. No opposition. Yorks. a.e. answered. Box 6/734.

DISTRICT. Well-established business in good ng-class district. Turnover for 6 months end- June 1949—shop, £2,779; N.H.I., £2,077. including first-class fittings, fixtures and vill, £3,000, plus s.a.v. Write Box A/372.

UFACTURERS OF PERFUMERY and toilet rations. Established 14 years. Well-known marks, valuable connections home and ex- Excellent popular range. For sale without ses owing to expiration of factory lease. lid opportunity for substantial concern to se business by acquiring additional profitable introduced prior to price-control regula- Goodwill £3,000, up-to-date plant and fit- £1,500, useful stock about £2,000. Princi- nly. Box 6/663.

SOUTH WALES valley town. Well-established business with large N.H.S., optics and Sub. P.O., with excellent living accommodation. These premises have a long lease to run at an annual rental of £104 which includes the living accommodation. Box 6/627.

APPOINTMENTS

2/6 per line (12 lines=1"). Box 2/-

HILL END HOSPITAL & CLINIC, ST. ALBANS, HERTS

DISPENSER (locum tenens), male or female, wanted immediately. Salary 7 guineas per week. Apply, stating full particulars of experience to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts.

ASSISTANT PHARMACIST

Applications are invited for the position of Assistant Pharmacist. Salary £370 to £450 per annum, according to experience, J.N.C. scale, or, Assistant Pharmacist for temporary duty possibly for a prolonged period. Salary £8 8s.-£10 10s. per week, or, Assistant with Apothecaries' Certificate for temporary duty. Salary, £7 7s. per week.

Applications to the Medical Superintendent, Queen Mary's Hospital for Children, Carshalton.

The Bridge
Walsall, nr. Birmingham
Phone : Walsall 5948
28 Rigby Buildings, 4 Aytoun St.
Manchester 1
Phone : Central 0877
141 Bath St., Glasgow
Phone : Douglas 3168

ERNEST J. GEORGE & CO.
Chemists' Transfer Agents, Stocktakers and Valuers
329 HIGH HOLBORN LONDON, W.C.1
Phone : Hol. 7406/7 and 2397

South Coast Representative:
G. Loxton Grinstead, M.P.S.
"Edweina," Oaklands Avenue
Saltdean, nr. Brighton, Sussex
Phone: Rottingdean 8233

BUSINESSES FOR DISPOSAL

A.1. East Sussex. Well-fitted pharmacy with good living accommodation; N.H.S. approximately 660 per month; freehold property for sale £5,000; net profit for last trading year £1,250; scope for introduction of optics; price of business £3,200 (including fixtures £1,000), plus stock at valuation.

A.2. South Wales. Well-established business with optical connection; turnover for last financial year estimated at £6,000; living accommodation available; N.H.S. approximately 800 per month; freehold property for sale £1,750; price of business £2,500, including fixtures and fittings estimated at £500 and stock estimated at £1,000.

A.3. Glamorganshire. Old-established business occupying main-road position; good optical connection; turnover for present financial year should approximate £7,000; living accommodation available; N.H.S. dispensing amounts to approximately 1,450 scripts per month; freehold property for sale £3,000; goodwill £1650, plus stock and fixtures at valuation (estimated at £2,000 and £850 respectively). Near offers would be considered.

A.4. London, S.W. Well-established business occupying main-road position. Certified net profit for last financial year exceeds £3,000 on a turnover of £8,632. Substantial N.H.S. connection. Three-bedroomed house with bathroom and garden available for purchase at a price of £1,800. Price asked for business £4,700, including stock £1,400; near offer considered. Excellent opportunity.

A.5. Suburban Essex. Cash drug store offered for conversion to pharmacy; premises occupy main-road position. Turnover for last financial year £6,344. Lock-up shop. Property can be purchased or 21-year lease will be granted. Total minimum price, £3,750, subject to stock, £1,500. Excellent scope under qualified proprietorship.

OFFICIAL VALUERS TO THE N.P.U. BUSINESS PURCHASE FUND

Appointments—Continued

NATIONAL HEALTH SERVICE ACT 1946

SHREWSBURY GROUP 15 HOSPITAL MANAGEMENT COMMITTEE

Two Assistant Pharmacists are required for duties in the area of Shrewsbury Group 15 Hospital Management Committee.

Salary in accordance with the Joint Negotiating Council Scale.

Applications, stating age, qualifications (with dates), nationality, with copies of recent testimonials, should be sent to the undersigned.

J. P. MALLETT,
Secretary.

Royal Salop Infirmary.
Shrewsbury.
September 3, 1949.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX (South-West Middlesex Hospital Management Committee)

DEPUTY CHIEF PHARMACIST

Applications are invited for the above post. Candidates should preferably hold the qualification of Pharmaceutical Chemist. Salary, £425 x £20—£525, plus an additional increment of £15 to £540 if specially recommended. The appointment will be subject to medical examination and the provisions of the National Health Service (Superannuation) Regulations, 1947. Applications, stating age, qualifications, present employment and previous experience, together with testimonials and the names of three referees, should be made in the applicant's own handwriting to the Chief Pharmacist at the above hospital.

WEST LONDON HOSPITAL, HAMMERSMITH, W.6.

Applications are invited for the appointment of assistant pharmacist (male). Salary in accordance with the J.N.C. Scale. Applications, with usual particulars, to the Chief Pharmacist.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX

(SOUTH-WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE)

Applications are invited for the post of ASSISTANT PHARMACIST. Salary in accordance with the J.N.C. scale, £370-£450 per annum. Commencing salary will depend on previous experience. Appointment to commence 1st October, 1949. Subject to the National Health Service Superannuation Scheme. Applications, stating age, qualifications and experience, with copies of testimonials, to be sent to the Chief Pharmacist at the above Hospital.

WOOLWICH GROUP HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the post of Assistant Pharmacist, either Senior or Junior (Resident or Non-resident) at St. Nicholas Hospital, Plumstead.

A sterilizing room is being provided.

Salary within the following scales according to experience:—

ASSISTANT, £370 to £450 p.a.
SENIOR ASSISTANT, £415 to £490.

Applications to be sent to Secretary, W.G.H.M.C., Memorial Hospital, Shooters Hill, S.E.18.

RTSMOUTH MUNICIPAL COLLEGE

ncipal—Leonard B. Benny, M.A. (Cantab.)
Department of Pharmacy and Physiology
APPOINTMENT OF HEAD OF DEPARTMENT

Applications are invited from suitably quali- d persons for the post of head of this artment. It is desirable that applicants uld be qualified to teach one or more of the jects Physiology, Pharmacology and Bac- iology.

alary according to Grade II of the cur- t Burnham Technical Scale (£800 x £25- 50) plus allowances recognised under that le.

Forms of application may be obtained from Registrar at the College.

E. G. BARNARD, M.A.,
gust 31, 1949. Chief Education Officer.

E ROYAL LONDON HOMŒOPATHIC HOSPITAL,

GREAT ORMOND STREET, W.C.1.
DISPENSER

Lady (unqualified) required with good ex- ience. Salary in accordance with Joint gotiating Committee scale. Apply, stating and full particulars to Pharmacist.

NORTH WALES HOSPITAL FOR RVOUS AND MENTAL DISORDERS, DENBIGH

SPENSING ASSISTANT required holding certificate of the Society of Apothecaries. ary, £270 x 5 yearly increments of £10 to 20, thereafter a £10 increment every 4 rs to a maximum of £350. The post is sub- t to the provisions of the National Health vice (Superannuation) Regulations, 1947. commodation available for a single woman. plications accompanied by two recent testi- nials to the Medical Superintendent.

S. L. FROST,
ecretary to the Management Committee,
Mental Hospital,
Denbigh.
September, 1949.

OUNT VERNON HOSPITAL AND HE RADIUM INSTITUTE, NORTH-WOOD, MIDDLESEX

plications are invited for the post of SISTANT PHARMACIST. Previous experi- e not essential. Salary in accordance with J.C. scale.

plications with full particulars and copies not more than three testimonials, to be for- rded as early as possible, to:

Secretary and House Governor.

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

METROPOLITAN HOSPITAL,
Kingsland Road, London, E.8.

DISPENSING ASSISTANT required on a rmanent non-resident basis for duties of a neral nature.

Scales of remuneration subject to experience ed on recommendations of J.N.C. which at present under review.

Hours of duty are 9 to 5 week-days. Satur- ys 9 to 12.

Applications, stating details of experience, d giving the names of two referees to:

FRANK CHAMBERS,
House Governor.

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

ASSISTANT TO PHARMACIST required immediately (Hall certificate). Hospital experience preferred. Salary in accordance with J.N.C. scale. Applications, stating age, experience, etc., together with copies of two recent testimonials, to the Secretary, Forest (No. 11) Group Hospital Management Committee, Langthorne Rd., Leytonstone, E.11.

CLAYTON HOSPITAL, WAKEFIELD

FIRST ASSISTANT PHARMACIST required. Non-resident post, salary in accordance with the recommendations of the Joint Negotiating Committee, i.e., £415 x £15—£490 per annum.

Applications, stating age, qualifications and experience, with copies of three recent testimonials, should be sent to the undersigned.

W. READ, Secretary.

ST. LUKE'S HOSPITAL, BRADFORD

ASSISTANT DISPENSER required. Salary in accordance with J.N.C. scale. Candidates should hold the Apothecaries' Hall Certificate. Applications, giving particulars of age, education, training and experience, should be forwarded to the undersigned.

H. TRUSSON, Secretary.
Bradford "A" Group H.M.C.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

36 words 8/6 (minimum) then 3d. per word. Box 2/-

RETAIL (HOME)

ALDINGTON & LEWIS, LTD., 168 High Rd., East Finchley, London, N.2 (Tudor 7786) require the services of an unqualified assistant with dispensing experience. The position is a progressive one and the remuneration will include participation in profits by way of bonus; living accommodation is not available. Please apply initially by letter, stating brief particulars of experience, etc.

AN EXPERIENCED MANAGER required for a very old-established business in Newark Market Square. This is an excellent opportunity for a pharmacist who is able to develop a pharmacy on modern lines, in a market town where there is plenty of scope. The position is progressive, and an interest in the business may be acquired by a suitable man. A small flat is available for temporary or permanent accommodation if required. Please send full details of previous experience, and salary required to Messrs. Cherrington & Sons, Newark.

ASSISTANT REQUIRED for dispensing. Hall qualifications or unqualified with good experience of dispensing. Apply, stating age, experience and salary required to Springate & Harrison, Ltd., 15 The Brent, Dartford.

CHOICE OF SUITABLE accommodation, if required, on appointment. Qualified persons, male and female, are required to manage attractive pharmacies in south-east and south-west districts of London. Positions are available offering salary from £550 to £650 per annum, plus generous commission. Engagements are permanent and progressive and include entry into superannuation scheme. Apply, giving full particulars to the Staff Manager, Royal Arsenal Co-operative Chemists, Ltd., 113 Powis St., Woolwich, S.E.18.

Situations Open—Continued

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £10 5s. to £11 5s. Metropolitan District £9 17s. 6d. to £10 17s. 6d. Provinces £9 10s. to £10 10s. (Female Central London £9 15s. to £10 15s. Metropolitan District £9 7s. 6d. to £10 7s. 6d. Provinces £9 to £10, according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurance, etc. There are also a number of vacancies for unqualified assistants with sound pharmaceutical experience. Good remuneration with a view to permanency. Pension scheme, etc. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience, and district preferred.

COMPETENT UNQUALIFIED ASSISTANT. Congenial situation. State salary, experience, to Aves, 33 Bury New Rd., Prestwich, Lancs.

CROYDON. Unqualified junior assistant required mainly for dispensing in busy pharmacy. Excellent working conditions. Apply with particulars of experience and salary required to O. L. Carrington, 300 London Rd., Croydon.

CROYDON AREA. Qualified assistant, full- or part-time, required for permanent position. Box 6/686.

DEREK CLARKE, Edgware. Experienced, unqualified assistant. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week, 3-10. One Sunday in four, rota duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex. Edgware 2061.

DISPENSER REQUIRED, Apothecaries Hall or similar. High-class business in residential area, 10 miles from London. Modern dispensary, good hours and salary, half-day Saturdays. Millar, 90 Wickham Rd., Park Langley, Beckenham, Kent. Bec. 1213.

DISPENSING and counter assistant, good experience essential. Central London. Apply Box A/375.

EDGWARE. Pharmacist required. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week; 3-10. One Sunday in four rota duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex. Edgware 2061.

EXPERIENCED PHARMACIST wanted, opportunity of partnership to suitable man. Accommodation offered. Vacancy owing to death of partner in old-established business. Williams & Peters, 165 Fortess Rd., N.W.5.

HEPPELLS require qualified manager for West-end pharmacy. Permanent position offering scope for initiative. Good salary and commission, pension scheme available. Apply with full details:—Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Rd., S.W.1.

JUNIOR ASSISTANT required for old-established business. Counter and dispensing. Highest references essential. Applicants please give details of experience, age, etc., and when free for interview, to W. J. Boyes, 61 Balham Hill, S.W.12. Tulse Hill 1738.

LONDON CO-OPERATIVE CHEMISTS, LTD., invite applications from experienced pharmacists for branch managerial vacancies in pleasant suburban areas. Modern, well-equipped shops with good supporting staffs, attractive salary, generous commission, with payment for all rota duties. Positions permanent and superannuated, with excellent promotion prospects. Choice of living accommodation, house or flat, where required. Full particulars as to experience, wages required, etc., to Superintendent Chemist, Grange Road, Leyton, E.10.

LEEK AND MOORLANDS Co-operative Societ Ltd., Pharmacy and Optical Department. Wante fully qualified pharmacist-optician as departmen manager and buyer. Modern shop. Good hou available. N.U.C.O. scale. Annual sales £14,00 Superannuation transfer scheme. Apply in writin giving full details to Managing Secretary, Leek Moorlands Co-operative Society, Ltd., Russell S Leek, Staffs.

MORLEY INDUSTRIAL Co-operative Society, Lt Pharmacist manager of branch required. Thr assistants kept. Modern house available, new decorated, in a good residential district, with easy reach of the shop. Apply with full partic lars including salary desired and previous e perience to the Secretary and General Manag Morley Industrial Co-operative Society, Lt Albion Street, Morley, Leeds.

PENRITH (Cumberland). Qualified assistant r quired for old-established business. The positi is suitable for a young man with a knowledge the requirements of an agricultural district. F muneration upon a salary and commission basis fixed salary as may be desired. State experien and salary required. Thos. Edmondson, Lt Corn Market, Penrith.

PHILIP HARRIS, LTD., Edmund Street, Birmi ham, require the services of a qualified pharm cist in their dispensing department. The positi is permanent and offers excellent opportunity advancement. Close 12.30 Saturday. Apply, writing first instance, stating salary required.

QUALIFIED ASSISTANT, lady or gentleman, quired for eventual management of a mod family business situated on the outskirts of a la town in Southern Midlands. Pleasant coun district. Congenial position. Please state particulars to Box 6/738.

QUALIFIED ASSISTANT PHARMACIST required central pharmacy, male or female. Apply, stati age, and wage required, and giving particul of experience to the Secretary, Stockport I. & Co-operative Society, Ltd., 27-39 Chesterg Stockport.

QUALIFIED LADY required to manage small sh 10 miles from London. Write, stating salary. Dans Lane, Mill Hill, N.W.7.

QUALIFIED CHEMIST-OPTICIAN required as m ager of our pharmacy and optical dept. Ann combined sales £9,000. Good opportunity for p gressive man. No half-day or Sunday dut Superannuation scheme in operation. Accomm dation available. Applications, stating age, perience and salary required, to General Manag Co-operative Society, Ltd., Winner St., Paignt S. Devon.

QUALIFIED MANAGER or qualified assist wanted for branch in West Bromwich. Liv accommodation rent free. Apply, Managing D ector, Langley Stephens, Ltd., 169 West W Rd., Sutton Coldfield, Birmingham.

QUALIFIED MANAGER required for branch ph macy. Salary, £10 per week, and commission National Health dispensing (minimum £1). Sup annuation scheme. Apply, stating age and exp ence, to Kidderminster Co-operative Chemi Ltd., Worcester St., Kidderminster.

QUALIFIED PHARMACIST required as mana suburban business. State experience, salary quired. R. A. Cheshire, Ltd., Charlton Pharma Charlton Kings, Cheltenham.

SUPERINTENDENT CHEMIST, male or female, quired to open new department. Splendid opp tunity. Apply, stating age, qualifications, exp ence and salary required, to Managing Secreta Newbiggin Dist. I. & P. Soc., Ltd., Front S Newbiggin-by-the-Sea.

Situations Open—Continued

IOR ASSISTANT, active, for busy cash counter dispensing. Progressive permanent post for rested worker. Good salary. Usual hours, no as. Darleys, Chemists and Opticians, 70 Ripple Barking, Essex.

SITUATIONS VACANT

There are vacancies in a group of attractive Pharmacies in Tottenham, Hornsey, almers Green, Southgate, East Barnet nd Finchley for dispensing assistants, xperienced saleswomen, junior counter taff. Congenial permanencies for interested personnel. All replies treated n strict confidence. Box A/390.

THWICK. A vacancy occurs for a qualified tant for modern retail shop. Good wages and litions. Write giving full particulars and y required, to Carr, Chemist, West Smeth- Staffs.

QUALIFIED ASSISTANT (lady or gentleman) for ensing. Congenial berth. No Sunday or holi- duties. Full particulars of experience and y required to G. C. Jeeves, 1 Tonning St., estoft.

QUALIFIED ASSISTANT, experienced, required dispensing department. Congenial surroundings. hours, 9-6. No holiday or half-day duties. Per- ency, good salary. Apply: O'Kane, c/o Lin- 133 Singlewell Rd., Gravesend, Kent.

NTED. Experienced lady assistant for retail . State salary required. G. H. Hawkins & Ltd., Exmoor Pharmacy, Minehead.

HAVE SEVERAL interesting and well paid ncies for unqualified staff in the London areas lford, Greenford, Battersea and Edgware. Ap- tion in first instance to Superintendent mist, London Co-operative Chemists, Ltd., nge Rd., Leyton, E.10.

RETAIL (OVERSEAS)

ING QUALIFIED male assistant required for hern Rhodesia. Commencing salary £45 per th. Three years' agreement. Passage out . Apply, with full particulars and copies estimonials, to Davis & Soper, Ltd., 52 & 54 Mary Axe, London, E.C.3.

WHOLESALE

EADING FIRM of pharmaceutical manufacturers ire medical representatives for territories cover- part of the Midlands and the South-East Lon- area. Qualified pharmacists under 36 years of preferred. Previous and/or hospital experi- desirable. The positions are permanent and y a basic salary plus commission and business nses; there is a contributory staff pension fund. icants should give full details of previous ex- ence. Write, Representative, Box A/383.

ACANCY exists in the purchasing department firm of manufacturing chemists in West Mid- x for a man experienced in the buying of nicals and raw materials. A knowledge of aging components an advantage but not essen- Commencing salary £500 to £600 per annum rding to experience. Five-day week. Pension me. Write, giving fullest details of age and rience, to Box A/380.

ACTIVE REPRESENTATIVE with drive and initiative required by a progressive independent organisation whose name is already a household word. Salary, commision, expenses, car allowance and opportunity for right man to earn a four-figure salary. Experience in grocery, chemist, hardware and allied trades an advantage but not essential. Write, stating age, experience and qualifications, to Box No. F.2957, Benson's, Kingsway Hall, Kingsway, London, W.C.2.

ALLEN & HANBURYS, LTD., Wigmore Street, W.1, require young pharmacist (male) to specialise in suture production. Applicants must be adaptable. Apply, in writing, giving details of qualifications, experience, etc., to the Manager, Suture Section.

ALLIED LABORATORIES, LTD., require three medical/trade representatives to take complete charge of the areas (1) South Wales; (2) West Riding; (3) Derby/Notts. Men with first-class experience of calling upon the medical profession and retail/wholesale chemists are invited to apply for these permanent, well paid positions. A progressive salary is offered together with expenses and commission. Full details of experience, age and salary required to Allied Laboratories, 140 Park Lane, W.1.

ASSISTANT REQUIRED to sales manager of small manufacturers/exporters. Professional background and experience in advertising ethical pharmaceutical, dental, or veterinary products essential. Box A/371.

ASSISTANT WANTED in tablet making department with manufacturing chemists in Liverpool. Knowledge of organisation more important than tablet making. State age, experience. Box A/392.

COMMISSION SALESMEN, with first-class connections among retail chemists, required for several areas. Liberal terms to right men. Apply, stating full details of experience and area covered, to Nappiwite, Ltd., 17 Conduit St., London, W.1.

ESSENCE DISTILLERS (West London) require assistant for flavours (matching and research). Permanent progressive position. Five-day week. Full details (in confidence) to Box No. W. 1367 Haddons', Salisbury Square, London, E.C.4.

EXPERIENCED MAN to take charge of small scale manufacturing laboratory. Excellent position with good prospects and superannuation scheme. Apply P. Jeyes & Co., The Drapery, Northampton.

FIRST-CLASS REPRESENTATIVES required all areas on a commission basis to sell fast repeating toilet line. We require gentlemen with excellent connections retail chemists, stores, etc. Please state age, area covered, in confidence, to Sales Manager. Box 6/676.

GLASSBLOWER. Experienced in small scientific and inhalation work. Good prospects. Write, stating age and experience, to Box A/353.

GRANULATOR, experienced, required for tablet dept. of manufacturing chemists in Hertfordshire, 18 miles from London. General knowledge of tablet making an advantage but not essential. Reply giving full details. Box A/385.

LABORATORY ASSISTANT required for small scale manufacturing. Experience more valuable than academic qualifications. Permanent position with superannuation scheme. Apply P. Jeyes & Co., Ltd., The Drapery, Northampton.

LADY with experience to look after sundry section of chemists' warehouse. Central London. Saturday 1 p.m. A/376.

LONDON PHARMACEUTICAL HOUSE has vacancy for medical/trade representative for South-Western Counties residing in or near Exeter. Pharmaceutical experience an advantage but not essential. Progressive salary and full expenses. Pension. Write, in first instance, to Box A/5.

Situations Open—Continued

LIFEGUARD PRODUCTS, LTD., require representative. If you possess initiative, drive and ability to sell first-class powerfully advertised national line to the grocery, chemist, and hardware trade, we have the opportunity for you to earn good money in salary and commission plus expenses and car allowance. Write, stating age, experience and qualifications, to Lifeguard Products, Ltd., 21 Watling St., E.C.4.

MANAGER REQUIRED for progressive export/import merchants. Knowledge of industrial chemicals essential and buying experience desirable. Initiative encouraged. Send details in strict confidence. Box 6/614.

MANCHESTER. First-class representative required by well-known toilet manufacturers for Manchester and district, age about 30. Own car and chemist connection essential. Salary, car allowance, expenses and commission. Reply with full details and copy of references to Sales Manager, "Bandbox," Ashe Laboratories, Ltd., 120 Victoria St., S.W.1.

MANUFACTURERS of high-grade toilet preparations require a chemist skilled in the manufacture of lines for the hairdresser. Box A/381.

MANUFACTURING CHEMISTS in North London have a vacancy for a manageress accustomed to supervision of factory staff and production. State age, experience and salary required. Box 6/731.

MEDICAL REPRESENTATIVE required for Scotland by old-established London manufacturing chemists, to call on doctors, dentists, hospitals and the retail and wholesale trade. Applications invited from men, 25-35 years of age, trained in pharmacy, qualified or unqualified. Previous outdoor experience and knowledge of Scottish territory an advantage, but not essential. State age, experience and salary required. Box A/384.

MEDICAL REPRESENTATIVE required for the Home Counties by reputable London firm of manufacturing chemists (commercial experience an advantage). Applicants must reside in the area and should state experience, salary required, etc., to Box 778 Smiths', 100 Fleet St., E.C.4.

OLD-ESTABLISHED firm of manufacturing chemists in North London require the services of a qualified pharmaceutical chemist, experienced in the bulk production of all galenicals. The appointment offers full scope and opportunity for the right man to whom a commencing salary of £700 per annum will be paid. Applications, stating age and details of past experience to Box A/377.

REPRESENTATIVES REQUIRED on good commission basis for all areas calling on private chemists, Co-ops., etc. Selling a well-known advertised proprietary medicine. Stocked by leading company chemists. D. Bee, Food Products, Ltd., Clearance House, Arthur St., London, E.C.4.

REPRESENTATIVE required with established connection hospitals, doctors, etc., for the sale of hospital furniture and instruments. Districts London, Home Counties, North England and Wales. Salary and commission. Edwards Surgical Supplies, Ltd., 83 Mortimer St., London W.1.

REPRESENTATIVE required calling on doctors and chemists in Essex and Sussex and doctors, hospitals and veterinary surgeons in North and North West London, Middlesex, Hertfordshire, Buckinghamshire and Essex, for wholesale manufacturing house. Reply giving full details, experience, etc., to Box A/7.

REPRESENTATIVE wanted to carry well-known French perfume as additional line on commission-expenses basis. Write, giving details of territory able to cover. Box 22, 69 Ebury St., London, S.W.1.

REPRESENTATIVE. An opportunity occurs to jo a manufacturer of international repute as repr sentative in the Bristol area. Applicants must ha experience in selling proprietary products to t wholesale and retail distributive trades and under 40 years of age. The position offers sco to the right man, carries a good salary and pensio A car is provided. Write, giving full particulars Box A/374.

REPRESENTATIVES with established wholesale a stores connection required for London, East a S.E. England and Home Counties. Generous e penses allowed and commission. Apply Univer Brush Co., Ltd., Luton.

REPRESENTATIVES, calling on chemists, conf tioners, etc., required, in most districts, to sell a commission basis a new points-free line. Qui seller. Box 6/628.

REPRESENTATIVES required for London and Sou Wales. Nationally advertised patent medici Only those with good connections, wholesale a retail chemists, grocers, etc., need apply. Wr giving full particulars. Box A.C. 44368, Sams Clarks, 57-61 Mortimer St., W.1.

REPRESENTATIVES wanted in certain areas; hi commission terms. Apply Beaucaire Laboratori Vauxhall Grove, London, S.W.8. Telephon Reliance 3796.

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Malt Extract	11th October, 19
Dextrose	11th October, 19
Liquid and Soft Paraffin ...	14th October, 19
Sanitary Towels	14th October, 19
Anæsthetics	14th October, 19
Antiseptic Fluids	14th October, 19
Medicinal Tablets and Vitamin Products	18th October, 19
Surgical Dressings	18th October, 19
Medicines and Drugs... ...	21st October, 19

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